

**Inventory of Native and Non-native Vegetation on
John Muir National Historic Site,
Eugene O'Neill National Historic Site,
and Port Chicago National Monument**

Spring 2002

**Written by:
Eric P. B. Jepsen
Andrew G. Murdock**

**In Cooperation with:
PRBO Conservation Science**

Table of Contents

<u>INTRODUCTION</u>	3
<u>SURVEY METHODS</u>	4
<u>BOTANICAL SURVEY RESULTS</u>	5
<u>VEGETATION TYPES</u>	7
<i>Grassland:</i>	7
<i>Blue Oak Woodland:</i>	8
<i>Mixed Evergreen Forest:</i>	9
<i>Chaparral:</i>	10
<i>Riparian:</i>	11
<i>Brackish Marsh:</i>	12
<i>Ruderal:</i>	13
<i>Orchard:</i>	14
<i>Garden:</i>	15
<u>THREATENED/ENDANGERED SPECIES AND LOCALLY RARE SPECIES</u>	16
<i>Table 1: T/E and Locally Rare Species</i>	17
<u>TARGET NON-NATIVE SPECIES</u>	19
<i>Table 2: Target Non-Native Species</i>	20
<u>MANAGEMENT RECOMMENDATIONS</u>	22
<u>PLANT SPECIES CHECKLIST FOR JOHN MUIR N.H.S.</u>	26
<u>MOUNT WANDA PROPERTY</u>	26
<u>SPECIES POTENTIALLY FOUND ON MOUNT WANDA</u>	37
<u>REJECTED SPECIES FOR MT. WANDA</u>	41
<u>HOUSE PROPERTY</u>	44
<u>GRAVESITE</u>	54
<u>PLANT SPECIES CHECKLIST FOR EUGENE O'NEILL N.H.S.</u>	59
<u>PLANT SPECIES CHECKLIST FOR PORT CHICAGO N.M.</u>	66
<u>PLANT SPECIES MASTER LIST</u>	69
<u>REFERENCES</u>	186

Introduction

For any given season, if you were to spend a few days each week walking the hills of a given area you would begin to intimately know and appreciate the species present in that ecosystem. Over time, you would see succession of plant populations and blooming periods, which continually augment and change the character of the plant communities; you would witness the amazing spurts of growth and productivity following a nurturing spring rain. And just when you were sure you had seen everything there was to see on that hillside or deep ravine, you would round a corner and see in a shaft of sunlight, the brilliant gleam of some vibrant annual shaking off the morning dew and summoning the insects of its choosing to come and partake of the glories of spring.

The following report is a dynamic representation of such an ecosystem spanning several different habitat types. The included lists represent the species richness of the study sites, based on over 500 combined hours spent in the field. Yet, no matter how thorough the investigation, this work will fall short in showing every species present in this ever-changing environment. There are many plant species reported for parts of the area surveyed that were absent (or simply unseen) in 2002. This may have been the case with the endangered Mount Diablo fairy lantern (*Calochortus pulchellus*), or the inconspicuous Naked broom-rape (*Orobanche uniflora*), but are more than likely still present on Mt. Wanda. On the other hand, we found some new species, too. This includes the Foothill larkspur (*Delphinium hesperium* ssp. *hesperium*), which has not been reported in the area since John Muir noted it in his journal around the beginning of the 20th century!

The purpose of this study was to document the plant species richness of John Muir National Historic Site (JOMU) in Martinez, California, Eugene O'Neill National Historic Site (EUON) in Danville, California, and Port Chicago National Monument (POCH), which is located on the Naval Weapons Station in Concord, California. JOMU includes three separate sub-properties: John Muir's gravesite, house property, and the 330-acre Mt. Wanda property formerly owned by Muir and his family. Comprehensive plant species lists were compiled for all three sites, with locational data and flowering

time included in as much detail as possible. Habitat types were determined based on established concepts of California plant habitats, and we describe them in detail below with respect to the three properties. This study aims to develop and promote a strong understanding of the plant resources to aid in the creation of management plans for the National Park Service properties in the East Bay.

Survey Methods

Vegetation surveys were performed from February through September of 2002. An initial assessment of all existing data for the Mt. Wanda site was performed. This included the 1992 survey of Mt. Wanda by Hunter et al. and various official and unofficial lists compiled by the staff at JOMU. From these data a master list of all previous reports of plant species was created to aid in the survey process. Over the course of the season, this list was then updated with additional species and locational information. For all other sites, data lists were compiled as species were found.

Areas were systematically surveyed on a regular basis. Plant identification was performed on site to prevent error caused by drying and crushing in transport. This also allowed us to examine the entire plant while fresh and prevent the need for picking rare and endangered plants. All taxonomy and nomenclature is based on the Jepson Manual for Higher Plants in California (Hickman et al. 1993). Locational data and flowering time were determined by direct field observations. Difficult species determinations were aided by use of the University and Jepson Herbaria at the University of California at Berkeley, and the CalFlora Database (www.calflora.org). A digital camera (Nikon CoolPix 775) was used in the field to capture representative photos of vegetation types and rare plants. These images are included on a CD provided to the NPS. GPS data also was recorded in the field for locations of rare plant and target non-native species. From these data, a series of maps have been produced which represent the collected data (Appendices 1-4).

Some time was spent relocating a series of vegetation transects that had been installed as part of the 1993 study. All of the grassland transects and some of the woodland transects were relocated and mapped with a Garmin GPS unit and monumented

with new flagging. These transects have also been mapped for future relocation and remeasurement (Appendix 5).

Finally, the many horticultural varieties located on the JOMU house property were incorporated into the survey list. For this we consulted and relied heavily upon the extensive knowledge of the JOMU maintenance staff and their records of both historic and recent plantings. It should be noted that the number of horticultural species found at JOMU is continually fluctuating as the maintenance staff augments and develops the gardens of the historic site.

Botanical Survey Results

Vegetation surveys detected 357 plant species on all 3 properties, including both native and introduced species. On Mt. Wanda alone, we found 280 species representing 64 families. At the John Muir House site 221 species were documented representing 76 families, (many of those under cultivation). The John Muir Grave site had 85 species from 45 different families. At EUON, 172 species were found from 55 families. At POCH we found only 55 species from 20 families, which is not surprising considering the extremely small piece of land on which the monument sits. Overall, 55.0% of the plants we found were native to California. Forty-eight of the introduced species found are listed as noxious weeds by either the California Exotic Pest Plant Council (CalEPPC), or the California Department of Food and Agriculture (CDFA).

While this survey thoroughly documents all species observed during the growing season of 2002, there are most certainly species that remain to be discovered, especially on the relatively large Mt. Wanda property. For Mt. Wanda, it can be said with some certainty that following a wildfire (or controlled burn) native species now dormant in the seed bank could, at least temporarily, reestablish some of the natural populations that were present before grazing and the onslaught of introduced grasses. Since grazing was stopped on Mt. Wanda in 1992, several species not found during the study conducted by Hunter et al. in 1992 have been reestablished, such as Red maids (*Calandrinia ciliata*), Slender phlox (*Phlox gracilis*), Bicolored linanthus (*Linanthus bicolor*), and Cream sacs (*Castilleja rubicundula* ssp. *lithospermoides*). The effects of intensive grazing can still

be observed, however, both in the contour of the landscape and in the abundance of invasive plants. The majority of native species were found in more selective habitats (e.g., mixed evergreen forest, chaparral, and blue oak woodland), while the non-native species tended to occur in disturbed areas and open grassland, and thoroughly dominated these habitats.

Vegetation Types

Prior to this survey, adequate descriptions of vegetation types for Mt. Wanda were already available in Hunter et al. These types include grassland, blue oak woodland, mixed evergreen forest, chaparral and ruderal. Initial surveys were performed to verify this assessment. These vegetation types also were used to describe other areas at JOMU, EUON, and POCH, while new categories were designated for vegetation types not previously surveyed. These other vegetation types (riparian, brackish marsh, orchard and garden) are described below.

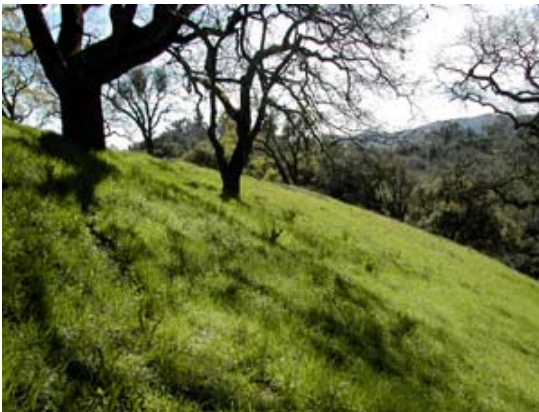
Grassland:

This vegetation type consists of mostly unshaded areas dominated by introduced grass and thistle species. It typically occurs in areas on top of Mt. Wanda as well as south-facing hillsides. Dominant species include: Wild oats (*Avena fatua*), Black mustard (*Brassica nigra*), Rip-gut brome (*Bromus diandrus*), Soft chess (*Bromus hordeaceus*), Italian ryegrass (*Lolium multiflorum*), Foxtail barley (*Hordeum murinum* ssp. *leporinum*), Italian thistle (*Carduus pycnocephalus*), and Yellow star-thistle (*Centaurea solstitialis*). Other significant species include Common fiddleneck (*Amsinckia menziesii* var. *intermedia*), Milkthistle (*Silybum marianum*), Cut-leaved geranium (*Geranium dissectum*), Crane's bill geranium (*Geranium molle*), various Filaree (*Erodium* spp.), Field bindweed (*Convolvulus arvensis*), and Spring vetch (*Vicia sativa*). This vegetation type covers roughly 117 acres of Mt. Wanda (Hunter et al. 1993), and is also present to a lesser degree at EUON.



Blue Oak Woodland:

This vegetation type is represented by a diverse assemblage of trees and herbaceous plants and has a distinct well-developed overstory and understory. Blue Oak Woodland typically occurs in north-facing areas of Mt. Wanda and in upper portions of drainages. The dominant species in the overstory is Blue oak (*Quercus douglasii*), with Valley oak (*Quercus lobata*), Black oak (*Quercus kelloggii*), and California buckeye (*Aesculus californica*), also well represented. Common understory species include Poison oak (*Toxicodendron diversilobum*), Ripgut brome (*Bromus diandrus*), Pacific snakeroot (*Sanicula crassicaulis*), Spring vetch (*Vicia sativa*), Canyon nemophila (*Nemophila hetrophylla*), Chickweed (*Stellaria media*), Miners' lettuce (*Claytonia perfoliata*), Goose grass (*Galium aparine*), Italian thistle (*Carduus pycnocephalus*), Hedgehog dogtail (*Cynosorus echinatus*), Wild oats (*Avena fatua*), and Field hedge parsley (*Torilis arvensis*). This vegetation type covers roughly 155 acres of Mt. Wanda (Hunter et al. 1993).



Mixed Evergreen Forest:

This vegetation type consists of more dense forest than that of Blue Oak Woodland. The overstory is significantly more developed than the understory in this vegetation type. Mixed Evergreen Forest generally occurs in lower portions of drainages and at the bottom of north-facing slopes. Dominant tree species include Coast live oak (*Quercus agrifolia*), and California bay (*Umbellularia californica*), with Black oak and California buckeye also occurring frequently. Understory species include: Poison oak, Maidenhair fern (*Adiantum jordanii*), California coffeeberry (*Rhamnus californica*), Wood fern (*Dryopteris arguta*), California blackberry (*Rubus ursinus*), Hedge nettle (*Stachys ajugoides* var. *rigida*), and Torrey melic (*Melica torreyana*). This vegetation type covers roughly 55 acres of Mt. Wanda, (Hunter et al. 1993), and includes the few riparian zones found on the mountain. This vegetation type is found at Mt. Wanda and is a significant component of the landscape of EUON as well. The forested area of EUON also contains a steep slide region with a seep that keeps the ground wet year round. Because of the unique nature of this spot, many interesting plants such as Yerba buena (*Satureja douglasii*), Giant horsetail (*Equisetum telmateia* ssp. *braunii*), and Solomon's seal (*Smilacina stellata*) grow here and nowhere else on the property.



Chaparral:

This vegetation type consists of dry scrub with some herb and tree components. Chaparral is only found in isolated patches on the north side of Mt. Wanda. Dominant species include Chamise (*Adenostoma fasciculata*), California sagebrush (*Artemisia californica*), Toyon (*Heteromeles arbutifolia*), Sticky monkeyflower (*Mimulus aurantiacus*), Coyote mint (*Monardella villosa* ssp. *villosa*), and Deer weed (*Lotus scoparius*). Other significant species include: Indian paintbrush (*Castilleja affinis*), Woolly owl's clover (*Castilleja foliolosa*), Hop tree (*Ptelea crenulata*), Poison oak, Coast live oak, and Coyote brush (*Baccharis pilularis*). This vegetation type covers roughly two acres of Mt. Wanda (Hunter et al. 1993).



Riparian:

At Mount Wanda and EUON, riparian areas occur within the Mixed Evergreen Forest vegetation type. However, at the JOMU Gravesite and House properties, the riparian areas are significantly different in species composition and are a distinct vegetation type. Riparian areas consist of stream banks, bordering areas, and the streams themselves. The plants found in these areas are a mix of tree, shrub and herbaceous species. Dominant plants include California black walnut (*Juglans californica* var. *hindsii*), California sycamore (*Platanus californicus*), Canary grass (*Phalaris aquatica*), Giant reed (*Arundo donax*), Red willow (*Salix laevigata*), Arroyo willow (*Salix lasiolepis*), Periwinkle (*Vinca major*), Himalaya berry (*Rubus discolor*), and Poison oak.



Brackish Marsh:

This area occurs only at POCH and consists of a few short stretches of shoreline free rubble and debris that are subject to regular tidal fluctuations. This unique vegetation type harbors many different species found nowhere else in this survey. Dominant plants include Three square (*Scirpus americanus*), Low clubrush (*Scirpus cernuus*), California bulrush (*Scirpus californicus*), Marsh gumplant (*Grindelia stricta* var. *angustifolia*), Wire rush (*Juncus balticus*), and Perrenial pepperweed (*Lepidium latifolium*), on the higher margins of the zone.



Ruderal:

This is more of a habitat than a true vegetation type, but a significant number of plants occur in these areas, and sometimes do not occur elsewhere. Ruderal areas are disturbed places that include roads, trails, road cuts, and other areas created and consistently impacted by human use. This also includes areas that are regularly disked or mowed as part of a fire management regime. These ruderal areas favor fast growing annuals and plants that can withstand general disturbance and rapid desiccation of surrounding soil. Significant plants include Little hop clover (*Trifolium dubium*), Perennial pepperweed, Bellardia (*Bellardia trixago*), Pineapple weed (*Chamomilla suaveolens*), Prickly sow thistle (*Sonchus asper*), Bristley ox-tongue (*Picris echioides*), and Filaree.



Orchard:

At the JOMU Gravesite and House properties, these areas are agriculturally developed, maintained, and disked historic fruit orchards. The plants found in these areas, other than those cultivated, consist entirely of weeds and other herbaceous introduced plants. Dominant plants include Foxtail, Bermuda grass (*Cynodon dactylon*), Cut leaved geranium, and Filaree.

On Mt. Wanda there are two significant locations of remnant orchards. One is a small set of Apricot trees (*Prunus armeniaca*), on the southeast side of Mt. Wanda, which is mostly given over to grassland at the time of this writing. The other is a large Olive orchard (*Olea europea*) at the top of the grassland hillside south of the Strain ranch property. These olives should be of some concern to the park as the CalEPPC considers them a weedy species, and there is already extensive secondary growth of olive saplings spreading into the mixed evergreen forest type adjacent to the orchard. Neither of these orchards is currently maintained.

At EUON, there are both newly planted and remnant orchards. The new orchards are maintained and disked, while some of the older orchards are left untouched, which is resulting in establishment of different dominant species. Dominant plants in disked areas include Common groundsel (*Senecio vulgaris*), Field bindweed, Puncturevine (*Tribulus terrestris*), Chickweed, Redmaids, Scarlet pimpernel (*Anagallis arvensis*), and Filaree species. Dominant plants in undisked areas are similar to the grassland described above for JOMU, with addition of Spring vetch, Hedgehog dogtail, and Canary grass.



Garden:

The garden type is a conglomerate type that is not so much dominated by single species of plants as it is by the unmistakable human aesthetic influence. This habitat is marked by well-groomed hedges surrounding regularly watered areas, usually within the proximity of a structure or a parking area. These areas tend to be mostly non-native individuals that have been carefully selected for the site, as well as a scattering of weed species that do well at growing between the propagated plants. There are often open patches of soil found within and around the garden plot. This habitat was found around the historic Muir house at JOMU and the Tao house at EUON.



Threatened/Endangered Species and Locally Rare Species

Mt. Wanda is home to several threatened and endangered species, most notably the Mt. Diablo sunflower (*Helianthella castanea*) which is currently listed as a “species of concern” by the U.S. Fish and Wildlife Service (USFWS). California black walnut (*Juglans californica* ssp. *hindsii*), which shares the “species of concern” status, is actually quite abundant at both JOMU and EUON. This is partially due to its existence in its natural riparian habitat as well as in relict orchard areas, where it was used extensively as rootstock for English walnut (*Juglans regia*). In these orchard areas many California black walnut trees have grown up and flourished long after their English walnut grafts have died.

All three properties contain locally rare species (based on Lake’s *Unusual and Significant Plants* list published by the California Native Plant Society and the CNPS Rare Plants Inventory), all of which are listed below. GPS coordinates were recorded for several species, (see map in Appendix 1 for exact locational data).



Photo: *Calochortus venustus* Butterfly mariposa lily

Table 1: T/E and Locally Rare Species

Latin Name	Common Name	CNPS Status	Federal Status	Property
<i>Arbutus menziesii</i>	Madrone	Uw		EUON
<i>Asclepias cordifolia</i>	Heart-leaved milkweed	Ua1		JOMU: Wanda
<i>Calochortus albus</i>	White globe lily	Uw		EUON
<i>Calochortus venustus</i>	Butterfly mariposa lily	Uw		JOMU: Wanda
<i>Carex aquatilis</i> var. <i>dives</i>	Sitka sedge	Ua2		JOMU: House
<i>Castilleja rubicundula</i> ssp. <i>lithospermoides</i>	Cream sacs	Ub		JOMU: Wanda
<i>Clarkia affinis</i>	Chaparral clarkia	Uw		JOMU: Wanda; EUON
<i>Collinsia sparsiflora</i> var. <i>sparsiflora</i>	Blue-eyed mary	Ub		JOMU: Wanda
<i>Deschampsia cespitosa</i> ssp. <i>holciformis</i>	Tufted hairgrass	Ub		POCH
<i>Deschampsia elongata</i>	Slender hairgrass	Uw		EUON
<i>Dicentra formosa</i>	Bleeding heart	Ua1		JOMU: Grave
<i>Epilobium ciliatum</i> ssp. <i>ciliatum</i>	Willow herb	Uw		JOMU: House; EUON
<i>Equisetum telmateia</i> ssp. <i>braunii</i>	Giant horsetail	Uw		JOMU: Grave; EUON
<i>Grindelia stricta</i> var. <i>angustifolia</i>	Marsh gum plant	List 4		POCH
<i>Helianthella castanea</i>	Mt. Diablo sunflower	List 1B, RED-223	Species of Concern	JOMU: Wanda
<i>Jaumea carnosa</i>	Fleshy jaumea	Uw		POCH
<i>Juglans californica</i> ssp. <i>hindsii</i>	California black walnut	List 1B, RED-333	Species of Concern	JOMU: Wanda, House, Grave; EUON
<i>Linaria canadensis</i>	Blue toadflax	Ub		JOMU: Wanda
<i>Phoradendron macrophyllum</i>	Big-leaf mistletoe	Ub		JOMU: Wanda, House; EUON
<i>Platanus racemosa</i>	California sycamore	Ua2		JOMU: Grave
<i>Plectritis brachystemon</i>	Short-spurred plectritis	Ua2		JOMU: Wanda

<i>Potentilla anserina</i> <i>ssp. pacifica</i>	Pacific silverweed	Ua2		POCH
<i>Ptelea crenulata</i>	Hop tree	Ub		JOMU: Wanda
<i>Ribes californicum</i> <i>var. californicum</i>	Hillside gooseberry	Uw		JOMU: Wanda
<i>Rupertia physodes</i>	California tea	Uw		JOMU: Wanda
<i>Scirpus cernuus</i>	Low clubrush	Uw		POCH
<i>Scirpus maritimus</i>	Prairie bulrush	Uw		JOMU: House
<i>Scutellaria tuberosa</i>	Skullcap	Uw		JOMU: Wanda
<i>Trillium</i> <i>chloropetalum</i>	Giant trillium	Uw		EUON

Notes:**Federal Status:****Species of Concern**

Plant species sensitive species that have not been listed, proposed for listing nor placed in candidate status. Species of concern is an informal term used by some but not all U.S. Fish & Wildlife Service offices. Species of concern receive no legal protection and the use of the term does not necessarily mean that the species will eventually be proposed for listing as a threatened or endangered species.

CNPS Rarity Lists:

List 1A = Plants Presumed Extinct in California;

List 1B = Plants Rare, Threatened, or Endangered in California and Elsewhere;

List 2 = Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere;

List 3 = Plants About Which We Need More Information - A Review List;

List 4 = Plants of Limited Distribution - A Watch List

CNPS Rarity-Endangerment-Distribution, (R-E-D), Code:**R - Rarity**

1 = Rare, but found in sufficient numbers and distributed widely enough that the potential for extinction is low at this time.

2 = Distributed in a limited number of occurrences, occasionally more if each occurrence is small.

3 = Distributed in one to several highly restricted occurrences, or present in such small numbers that it is seldom reported.

E = Endangerment

1 = Not endangered

2 = Endangered in a portion of its range

3 = Endangered throughout its range

D - Distribution

1 = More or less widespread outside California

2 = Rare outside California

3 = Endemic to California

Lake's Unusual and Significant Plants list, (for Alameda and Contra Costa Counties):

Ua1 = 2 known localities or fewer

Ua2 = More than 2 localities, but seriously threatened

Ub = 3-5 localities, threatened but not as seriously

Uw = Lake's watch list

Target Non-Native Species

Both the CalEPPC and the CDFA actively maintain lists of species considered invasive weeds. Each organization has a different set of standards to determine what qualifies as a weed. The CalEPPC is mostly concerned with invasive plants of wild areas, while the CDFA is more concerned with weed plants of farm and livestock areas. Because the three properties covered in this report are comprised of both wild regions and managed land, we have chosen to use both lists for determining which plants would be included as weed species, be they native or non-native. There are 47 species on the three properties, which are listed weed species or are under consideration to be rated. Also included in this report is a list of invasive weed species not currently on any official lists, which may be taken into consideration on future lists.

GPS coordinates for weed populations of relatively limited distribution, but with high potential to spread, were taken during the course of this study. These species are Tree of Heaven, (*Ailanthus altissima*), Giant reed, Black mustard, Purple star-thistle (*Centaurea calcytrapa*), Bull thistle (*Cirsium vulgare*), Franchet Cotoneaster (*Cotoneaster franchetii*), Poison hemlock (*Conium maculatum*), Artichoke thistle (*Cynara cardunculus*), Australian Blue gum (*Eucalyptus globulus*), Oblong spurge (*Euphorbia oblongata*), Fennel (*Foeniculum vulgare*), French broom (*Genista monspessulana*), Hoary mustard (*Hirschfeldia incana*), Perennial pepperweed, Canary grass, Himalaya berry, Milk thistle, Perrywinkle and Spiny cocklebur (*Xanthium spinosum*). Many of the weeds of highest concern are too widespread to realistically collect useful GPS data. Please refer to maps in Appendices 2-4 for locational data.

Table 2: Target Non-Native Species

Latin Name	Common Name	CalEPPC Rating	CDFA Rating
<i>Ailanthus altissima</i>	Tree of heaven	A-2	
<i>Arundo donax</i>	Giant reed	A-1	
<i>Avena barbata</i>	Slender wild oat	G	
<i>Avena fatua</i>	Wild oat	G	
<i>Bellardia trixago</i>	Bellardia	B	
<i>Brassica nigra</i>	Black mustard	B	
<i>Bromus diandrus</i>	Rip-gut brome	G	
<i>Bromus madritensis</i> <i>ssp. rubens</i>	Foxtail chess, Red brome	A-2	
<i>Carduus</i> <i>pycnocephalus</i>	Italian thistle	B	NOX-C
<i>Carpobrotus edulis</i>	Ice plant, Sea fig	A-1	
<i>Centaurea calcitrapa</i>	Purple star thistle	B	NOX-B
<i>Centaurea melitensis</i>	Tocalote	B	NOX-Non-Rated
<i>Centaurea solstitialis</i>	Yellow star thistle	A-1	NOX-C
<i>Cirsium vulgare</i>	Bull thistle	B	NOX-Non-Rated
<i>Conium maculatum</i>	Poison hemlock	B	
<i>Convolvulus arvensis</i>	Bindweed	?	NOX-C
<i>Cotoneaster</i> <i>franchetii</i>	Francheti cotoneaster	N	
<i>Cotoneaster lacteus</i>	Big-leafed cotoneaster	A-2	
<i>Cynara cardunculus</i>	Artichoke thistle	A-1	NOX-B
<i>Cynodon dactylon</i>	Bermuda grass		NOX-C
<i>Eucalyptus globulus</i>	Tasmanian blue gum	A-1	
<i>Euphorbia lathyris</i>	Caper spurge	N	
<i>Euphorbia oblongata</i>	Oblong spurge		NOX-B
<i>Ficus carica</i>	Fig	A-2	
<i>Foeniculum vulgare</i>	Fennel	A-1	
<i>Genista</i> <i>monspessulana</i>	French broom	A-1	NOX-C
<i>Hedera canariensis</i>	Algerian ivy	N	
<i>Hedera helix</i>	English ivy	B	
<i>Hirschfeldia incana</i>	Hoary mustard	N	
<i>Lepidium latifolium</i>	Perennial pepperweed	A-1	NOX-B
<i>Lolium multiflorum</i>	Italian rye grass	G	
<i>Malvella leprosa</i>	Alkali mallow		NOX-C
<i>Medicago</i> <i>polymorpha</i>	California bur clover	?	
<i>Nerium oleander</i>	Oleander	?	
<i>Olea europaea</i>	Olive	B	

<i>Oxalis pes-caprae</i>	Bermuda buttercup	N	
<i>Phalaris aquatica</i>	Harding grass	B	
<i>Phyla nodiflora</i> var <i>nodiflora</i>	Common lippia	N	
<i>Picris echioides</i>	Bristly ox-tongue	?	
<i>Piptatherum</i> <i>miliaceum</i>	Smilo grass	N	
<i>Prunus cerasifera</i>	Cherry plum	N	
<i>Rubus discolor</i>	Himalaya blackberry	A-1	
<i>Salsola soda</i>	Russian thistle	N	
<i>Senecio vulgaris</i>	Groundsel		NOX-Non-Rated
<i>Silybum marianum</i>	Milk thistle	?	
<i>Solanum americanum</i>	Small-flowered nightshade		NOX-Non-Rated
<i>Vinca major</i>	Periwinkle	B	
<i>Tribulus terrestris</i>	Puncturevine		NOX-C
<i>Xanthium spinosum</i>	Spiny cocklebur	?	
<i>Zantedeschia</i> <i>aethiopica</i>	Calla-lily	?	

Notes:**CalEPPC Ratings:**

A-1 = Most Invasive Wildland Pest Plants, Widespread; **A-2** = Most Invasive Wildland Pest Plants, Regional

B = Wildland Pest Plants of Lesser Invasiveness; **N** = Need More Information; **G** = Other Annual Grasses of Concern

? = Considered But Not Listed

CDFA Ratings:

NOX-C = Extremely Widespread (Containment Efforts Not Recommended);

NOX-B = Widespread (Potentially Containable);

NOX-Non-rated = Weeds Without an Established Rating



Photo: *Silybum marianum*

Milk thistle

Management Recommendations

This survey covered a wide variety of habitat types and communities that require very different management regimes that need to be tailored for each specific area. The north side of Mt. Wanda and the east side of EUON both have large areas of “wild lands” that experience a small amount of human impact as a function of their inaccessibility. For these areas the most worthwhile management practice should probably be maintaining limited access. These areas contain some of the richest species diversity of the areas surveyed, and also were home to a number of interesting animals. During our time in the field we found several species of snake, a few active honeybee hives, many different bird species, footprints and scat a number of large mammals, and even the den of a Red Fox. One noteworthy find was the nest of a pair of Turkey Vultures, (replete with one healthy chick), far from the meandering wildflower path, in one of the most distant, unvisited corners of the park. Turkey Vultures are shy creatures, choosing isolated places in the chaparral for their nesting area. Very rarely are these nesting areas ever found. The existence of this nest is a testament to the undisturbed nature of the area.

On the north side of Mt. Wanda we found a number of diverse plant communities, with isolated “hot spots” of diversity. In this area there were enough minor variations in degree of slope, hillside orientation, and composition of overstory density, which created a very diverse set of microclimates in which many different species of plant thrived, thus making areas of the North-facing Blue Oak Woodland by far the most botanically interesting. Future management should take this into account, and management should favor the preservation of that habitat. It was also in these north side areas where the Mt. Diablo sunflower was found, as well as the locally rare Heart-leafed milkweed. The sunflower was located usually along the ecotone between the Chaparral and the Blue Oak Woodland and was restricted to small, isolated populations of ten to twenty plants. The milkweed was represented by only a handful of individual plants in two isolated locations. The continued existence of the Chaparral and Blue Oak Woodland types seems vital to the existence of these rare plants.

The proper management of the Blue Oak Woodland is especially important as the presence of the *Phytophthora* species responsible for Sudden Oak Death could spell doom

for this entire plant community, including those rare species mentioned above. There are also many century-old oak trees spread out over Mt. Wanda, that represent in themselves the vitality of the plant community. The loss of these trees would be nothing less than tragedy.

The top and southern portions of Mt. Wanda are a very different story. Most open grassland areas were dominated by non-native, annual grasses. These areas were also densely populated by patches of Yellow star thistle, Italian thistle, Milk thistle, and Black mustard. Management of the grassland areas of Mt. Wanda poses a significant challenge. Perhaps this is the opportunity the National Park Service has been waiting for to test the usefulness of a new, intensive management regime, (e.g. proscribed burn combined with grazing and selective weeding). While there is certainly a huge issue of liability and good neighbor relations, a fire regime may be the answer to cutting down on the non-native seedbed. As it stands now, there are only a few portions of the grassland areas on Mt. Wanda that are not dominated by aggressive non-natives.

In general, all disturbed sites were dominated by non-natives as well. One such site was the pasture adjacent to the entrance to the Strain property. This area was dominated by a combination of Purple star thistle, Artichoke thistle, Perennial pepperweed, Bull thistle, and Italian rye grass. Well-timed, intense weeding operations would probably do very well at controlling and eradicating these populations. In the case of the Purple star thistle, and the Perennial pepperweed, this is the only location where these plants exist in the park and eradication would be easily attained through intensive weeding.

On the southeast side of Mt. Wanda are the remnants of Apricot trees, dating back to the time of John Muir. While it may be in keeping with the doctrine of the park to reestablish and maintain these trees as part of the historically significant agriculture of Muir's time, the amount of water needed to maintain these trees in a healthy state may be beyond the park's resources. As they are now, there are only a few trees holding on tenuously to life on that otherwise parched and arid hillside.

Further south, on the hillside across the drainage of the Strain ranch is the Olive orchard mentioned earlier in this report. This orchard should be of serious concern for the park as it is already spreading down into the forest below it and has a great potential to out-compete all other plants in that area. The effort needed to thwart this spread is not huge as the olive seedlings and saplings are easily identified and can be hand pulled in about an afternoon's work by a weed abatement crew.

On the north end of the park is another simple afternoon of weed abatement that will make a permanent impact on the park. There is a relatively small patch of French broom that could be eradicated in a day and also a single patch of Himalayan blackberry that also could be eradicated in a day.

A final area of concern for Mt. Wanda should be around the park boundaries. Tree of heaven is a major problem along the Eastern border of the park and there are a few trees along the Northern border. The eradication of this tree is probably never completely attainable as they grow abundantly in the surrounding neighborhood. But after the current aggressive removal project, the containment of the spread of tree of heaven may be a fairly small annual project for the park.

As for the orchard areas that are at the John Muir House and Gravesite as well as EUON, the current practice of disking has both advantages and disadvantages as a management practice. While the major benefit of low fuel loading, and thus low fire danger is a major benefit from disking, the constant disturbance is creating an environment in which quick-growing annuals and weed species proliferate. On the whole, most of the species found in these areas are "benign" weeds in that they don't seem to spread into other areas. There are however a few problem species that are doing very well by this practice. The most offensive of these weeds is Puncture vine (*Tribulus terrestris*). This is an easily recognizable plant in disturbed areas that produces an abundance of hard, spiny, tire-popping seedpods. It may be this weed can be controlled manually or by poison, but at present it seems to be growing unchecked at all sites.

The POCH site was the picture of an edge community. On the side of the Carquinez Straits there was a strong, (though tiny), wetland community composed of

several interesting species that were adapted to the tidal environment. Then, just two meters from the water was the beginning of ruderal areas, where invasive weed species dominated. At the time of this writing POCH is less than one hectare in size, but is abutted by hundreds of hectares of military land, that, if acquired by the Parks Service, would become both a tremendous asset in the form of wetlands and a major restoration project. The two dominant weeds found on the POCH site were Perennial pepperweed and Fennel. Both of these species extended over vast areas all around POCH and any restoration project would have to devote many, many hours to the removal of these species. Just off of the site were many massive patches of Iceplant, which also should become the focus of a Parks eradication project, should the National Monument property boundaries ever be extended

Plant Species Checklist for John Muir N.H.S.**Mount Wanda Property****LATIN NAME****COMMON NAME****Amaranthaceae**

- ☐ *Amaranthus blitoides*

Prostrate pigweed

Anacardiaceae

- ☐ *Toxicodendron diversilobum*

Poison oak

Apiaceae

- ☐ *Anthriscus caucalis*

Bur-chervil

- ☐ *Conium maculatum*

Poison hemlock

- ☐ *Daucus pusillus*

Rattlesnake weed

- ☐ *Foeniculum vulgare*

Fennel

- ☐ *Lomatium utriculatum*

Bladder parsnip

- ☐ *Osmorhiza chilensis*

Wood cicely

- ☐ *Perideridia kelloggii*

Yampah

- ☐ *Sanicula bipinnatifida*

Purple sanicle

- ☐ *Sanicula crassicaulis*

Pacific snakeroot

- ☐ *Scandix pecten-veneris*

Shepherd's needle

- ☐ *Torilis arvensis*

Field hedge parsley

- ☐ *Torilis nodosa*

Knotted hedge parsley

Apocynaceae

- ☐ *Vinca major*

Periwinkle

Araceae

- ☐ *Zantedeschia aethiopica*

Calla-lily

Araliaceae

- ☐ *Hedera helix*

English ivy

Aristolochiaceae

- ☐ *Aristolochia californica*

Dutchman's pipe

Asclepiadaceae

- ☐ *Asclepias cordifolia*

Heart-leafed milkweed

- *Asclepias fascicularis*

Narrow-leafed milkweed

Asteraceae

- *Achillea millefolium*
- *Achyrrachaena mollis*
- *Agoseris grandiflora*
- *Artemisia californica*
- *Artemisia douglasiana*
- *Aster chilensis*
- *Aster radulinus*
- *Baccharis pilularis*
- *Carduus pycnocephalus*
- *Centaurea calcitrapa*
- *Centaurea melitensis*
- *Centaurea solstitialis*
- *Chamomilla suaveolens*
- *Cichorium intybus*
- *Cirsium vulgare*
- *Conyza bonariensis*
- *Conyza canadensis*
- *Cynara cardunculus*
- *Eriophyllum confertiflorum* var. *confertiflorum*
- *Filago gallica*
- *Gnaphalium californicum*
- *Gnaphalium luteo-album*
- *Grindelia camporum* var. *camporum*
- *Helianthella castanea*
- *Helianthus annuus*
- *Holocarpha virgata* ssp. *virgata*
- *Hypochaeris glabra*
- *Hypochaeris radicata*
- *Lactuca serriola*
- *Lactuca virosa*
- *Lagophylla ramosissima* ssp. *ramosissima*

Yarrow

Blow wives

California dandelion

California sagebrush

California mugwort

Common california aster

Broad-leaved aster, Woodland aster

Coyote brush

Italian thistle

Purple star thistle

Tocalote

Yellow star thistle

Pineapple weed

Chicory

Bull thistle

South American horseweed

Canadian horseweed

Artichoke thistle

Golden yarrow

Fluffweed

California everlasting

Cudweed

Common gum plant

Mount Diablo sunflower

Sunflower

Sticky tarweed

Smooth cat's ear

Hairy cat's ear

Prickly lettuce

Wild lettuce

Common hareleaf

□ <i>Madia elegans</i> ssp. <i>densiflora</i>	Common tarweed
□ <i>Madia gracilis</i>	Slender tarweed
□ <i>Micropus californicus</i> var. <i>californicus</i>	Slender cottonweed
□ <i>Picris echinoides</i>	Bristly ox-tongue
□ <i>Psilocarphus tenellus</i> var. <i>tenellus</i>	Woolly head
□ <i>Senecio vulgaris</i>	Groundsel
□ <i>Silybum marianum</i>	Milk thistle
□ <i>Solidago californica</i>	California goldenrod
□ <i>Soliva sessilis</i>	South American soliva
□ <i>Sonchus asper</i> ssp. <i>asper</i>	Prickly sow thistle
□ <i>Sonchus oleraceus</i>	Common sow thistle
□ <i>Taraxacum officinale</i>	Dandelion
□ <i>Uropappus lindleyi</i>	Silver puffs
□ <i>Wyethia angustifolia</i>	Narrowleaf mule ears
□ <i>Wyethia helenoides</i>	Grey mule ears
□ <i>Xanthium strumarium</i>	Cocklebur

Boraginaceae

□ <i>Amsinckia menziesii</i> var. <i>intermedia</i>	Common fiddleneck
□ <i>Cynoglossum grande</i>	Grand hound's tongue

Brassicaceae

□ <i>Brassica nigra</i>	Black mustard
□ <i>Brassica rapa</i>	Field mustard
□ <i>Capsella bursa-pastoris</i>	Shepherd's purse
□ <i>Cardamine oligosperma</i>	Bitter cress
□ <i>Hirschfeldia incana</i>	Hoary mustard
□ <i>Lepidium latifolium</i>	Perrenial pepperweed
□ <i>Lepidium nitidum</i> var. <i>nitidum</i>	Poorman's peppergrass
□ <i>Raphanus sativus</i>	Wild radish
□ <i>Sinapis arvensis</i>	Charlock
□ <i>Sisymbrium officinale</i>	Hedge mustard
□ <i>Thysanocarpus curvipes</i>	Fringepod

Caprifoliaceae

□ <i>Lonicera hispidula</i> var. <i>vacillans</i>	California honeysuckle
---	------------------------

□ <i>Sambucus mexicana</i>	Blue elderberry
□ <i>Symphoricarpos albus</i> var. <i>laevigatus</i>	Snowberry
Caryophyllaceae	
□ <i>Silene gallica</i>	Windmill pink, Common catchfly
□ <i>Spergularia rubra</i>	Sand spurrey
□ <i>Stellaria media</i>	Chickweed
Convolvulaceae	
□ <i>Calystegia subacaulis</i> ssp. <i>subacaulis</i>	Hill morning glory
□ <i>Convolvulus arvensis</i>	Bindweed
Cucurbitaceae	
□ <i>Marah fabaceus</i>	California manroot
Dryopteridaceae	
□ <i>Dryopteris arguta</i>	Wood fern
Ebenaceae	
□ <i>Diospyros kaki</i>	Persimmon
Euphorbiaceae	
□ <i>Chamaesyce maculata</i>	Spotted spurge
□ <i>Eremocarpus setigerus</i>	Dove weed, Turkey mullein
□ <i>Euphorbia lathyris</i>	Caper spurge
□ <i>Euphorbia oblongata</i>	Oblong spurge
□ <i>Euphorbia spathulata</i>	Spatulate leafed spurge
Fabaceae	
□ <i>Genista monspessulana</i>	French broom
□ <i>Lathyrus latifolius</i>	Everlasting pea
□ <i>Lathyrus vestitus</i> var. <i>vestitus</i>	Hillside pea
□ <i>Lotus corniculatus</i>	Bird's foot lotus
□ <i>Lotus humistratus</i>	Hill lotus
□ <i>Lotus purshianus</i> var. <i>purshianus</i>	Spanish lotus
□ <i>Lotus scoparius</i> var. <i>scoparius</i>	Deer weed
□ <i>Lotus wrangelianus</i>	Common trefoil
□ <i>Lupinus bicolor</i>	Miniature lupine
□ <i>Lupinus formosus</i> var. <i>formosus</i>	Summer lupine
□ <i>Lupinus microcarpus</i> var. <i>microcarpus</i>	Chick lupine, Valley lupine

□ <i>Lupinus nanus</i>	Sky lupine, Douglas's lupine
□ <i>Lupinus succulentus</i>	Arroyo lupine
□ <i>Medicago arabica</i>	Spotted bur clover
□ <i>Medicago polymorpha</i>	California bur clover
□ <i>Melilotus indica</i>	Sour clover
□ <i>Robinia pseudo-acacia</i>	Black locust
□ <i>Rupertia physodes</i>	California tea
□ <i>Trifolium bifidum</i> var. <i>decipiens</i>	Deceiving clover
□ <i>Trifolium dubium</i>	Little hop clover, Shamrock
□ <i>Trifolium gracilentum</i> var. <i>gracilentum</i>	Pinpoint clover
□ <i>Trifolium hirtum</i>	Rose clover
□ <i>Trifolium incarnatum</i>	Crimson clover
□ <i>Trifolium microcephalum</i>	Smallhead clover
□ <i>Trifolium microdon</i>	Valparaiso clover, Thimble clover
□ <i>Trifolium oliganthum</i>	Fewflower clover
□ <i>Trifolium subterraneum</i>	Subterranean trifolium
□ <i>Trifolium wildenovii</i>	Tomcat clover
□ <i>Vicia americana</i> var. <i>americana</i>	American vetch
□ <i>Vicia benghalensis</i>	Purple vetch
□ <i>Vicia sativa</i> ssp. <i>nigra</i>	Spring vetch

Fagaceae

□ <i>Quercus agrifolia</i>	Coast live oak
□ <i>Quercus douglasii</i>	Blue oak
□ <i>Quercus kelloggii</i>	Black oak
□ <i>Quercus lobata</i>	Valley oak
□ <i>Quercus suber</i>	Cork oak

Geraniaceae

□ <i>Erodium botrys</i>	Long-beaked stork's bill
□ <i>Erodium cicutarium</i>	Red-stemmed stork's bill
□ <i>Erodium moschatum</i>	Whitestem filaree
□ <i>Geranium dissectum</i>	Cut-leaved geranium
□ <i>Geranium molle</i>	Crane's bill geranium

Grossulariaceae

- *Ribes californicum* var. *californicum*

Hillside gooseberry

Hippocastanaceae

- *Aesculus californica*

California buckeye

Hydrophyllaceae

- *Nemophila heterophylla*

Canyon nemophila

Hypericaceae

- *Hypericum calycinum*

Creeping St. John's wort

Iridaceae

- *Sisyrinchium bellum*

Blue-eyed grass

Juglandaceae

- *Juglans californica* ssp. *hindsii*

California black walnut

- *Juglans regia*

English walnut

Juncaceae

- *Juncus patens*

Spreading rush

- *Juncus xiphioides*

Iris-leaf juncus

- *Luzula comosa*

Wood rush

Lamiaceae

- *Lamium amplexicaule*

Clasping henbit

- *Monardella villosa* ssp. *villosa*

Coyote mint

- *Salvia mellifera*

Black sage

- *Scutellaria tuberosa*

Skullcap

- *Stachys ajugoides* ssp. *rigida*

Hedge nettle

Lauraceae

- *Umbellularia californica*

California bay

Liliaceae

- *Allium serra*

Serrated onion

- *Asparagus officinalis* ssp. *offininalis*

Asparagus

- *Brodiaea elegans* ssp. *elegans*

Harvest brodiaea

- *Calochortus venustus*

Butterfly mariposa lily

- *Chlorogalum pomeridianum* var. *pomeridianum*

Wavy-leaved soap plant

- *Dichelostemma capitatum* ssp. *capitatum*

Blue dicks

- *Dichelostemma congestum*

Round tooth ookow

- *Triteleia laxa*

Ithuriel's spear, Wally basket

- *Yucca elephantipes*
- *Zigadenus fremontii*

Giant spineless yucca
Star lily, Death camas

Malvaceae

- *Malva nicaeensis*

Bull mallow

Myrtaceae

- *Eucalyptus globulus*

Tasmanian blue gum

Oleaceae

- *Olea europea*

Olive

Onagraceae

- *Clarkia affinis*
- *Clarkia unguiculata*
- *Epilobium brachycarpum*

Chaparral clarkia
Elegant clarkia
Annual fireweed

Oxalidaceae

- *Oxalis corniculata*
- *Oxalis pes-caprae*

Wood sorrel
Bermuda buttercup

Papaveraceae

- *Eschscholzia californica*

California poppy

Philadelphaceae

- *Philadelphus lewisii*

Mock orange

Pinaceae

- *Pinus* sp.

Horticultural var.-Pine

Plantaginaceae

- *Plantago lanceolata*

Lanceleaf plantain, English plantain

Poaceae

- *Agrostis exarata*
- *Aira caryophyllea*
- *Avena barbata*
- *Avena fatua*
- *Briza minor*
- *Bromus carinatus* var. *carinatus*
- *Bromus diandrus*
- *Bromus hordeaceus*
- *Bromus madritensis* ssp. *rubens*
- *Cynodon dactylon*

Spike redtop
Hairgrass
Slender wild oat
Wild oat
Quaking grass
California brome
Rip-gut brome
Soft chess
Foxtail chess, Red brome
Bermuda grass

□ <i>Cynosorus echinatus</i>	Hedgehog dogtail
□ <i>Dactylis glomerata</i>	Orchard grass
□ <i>Elymus glaucus</i> ssp. <i>glaucus</i>	Blue wildrye
□ <i>Gastridium ventricosum</i>	Nit grass
□ <i>Hordeum marinum</i> ssp. <i>gussonianum</i>	Mouse barley
□ <i>Hordeum murinum</i> ssp. <i>leporinum</i>	Foxtail barley
□ <i>Leymus condensatus</i>	Giant wild rye
□ <i>Leymus triticoides</i>	Creeping wild rye
□ <i>Lolium multiflorum</i>	Italian rye grass
□ <i>Melica californica</i>	California melic
□ <i>Melica torreyana</i>	Torrey melic
□ <i>Nasella lepida</i>	Foothill needlegrass
□ <i>Nasella pulchra</i>	Purple needlegrass
□ <i>Phalaris paradoxa</i>	Hood canary grass
□ <i>Poa annua</i>	Annual bluegrass
□ <i>Poa bulbosa</i>	Bulbous bluegrass
□ <i>Poa secunda</i> ssp. <i>secunda</i>	One Sided bluegrass
□ <i>Polypogon monspeliensis</i>	Rabbit's foot grass
□ <i>Triticum aestivum</i>	Wheat
□ <i>Vulpia bromoides</i>	Brome fescue
□ <i>Vulpia microstachys</i> var. <i>pauciflora</i>	Few-flowered fescue
□ <i>Vulpia myuros</i> var. <i>myuros</i>	Rat-tail fescue

Polemoniaceae

□ <i>Linanthus bicolor</i>	Bicolored linanthus
□ <i>Phlox gracilis</i>	Slender phlox

Polygonaceae

□ <i>Eriogonum nudum</i> var. <i>auriculatum</i>	Nude buckwheat
□ <i>Polygonum arenastrum</i>	Common knotweed
□ <i>Rumex acetosella</i>	Sheep sorrel
□ <i>Rumex conglomeratus</i>	Whorled dock
□ <i>Rumex crispus</i>	Curly dock, Yellow dock
□ <i>Rumex pulcher</i>	Fiddle dock

Polypodiaceae

- *Polypodium californicum*

California polypody

Portulacaceae

- *Calandrinia ciliata*
- *Claytonia perfoliata* ssp. *perfoliata*

Red maids

Miner's lettuce

Primulaceae

- *Anagallis arvensis*
- *Dodecatheon hendersonii*

Scarlet pimpernel

Shooting star

Pteridaceae

- *Adiantum jordanii*
- *Pellaea andromedaefolia*
- *Pentagramma triangularis* ssp. *triangularis*

Maidenhair fern

Coffee fern

Goldback fern

Punicaceae

- *Punica granatum*

Pomegranite

Ranunculaceae

- *Delphinium hesperium* ssp. *hesperium*
- *Ranunculus californicus*
- *Ranunculus muricatus*

Foothill larkspur

California buttercup

Spiny buttercup

Rhamnaceae

- *Rhamnus californica* ssp. *californica*

California coffeeberry

Rosaceae

- *Adenostoma fasciculatum*
- *Aphanes occidentalis*
- *Cotoneaster franchetii*
- *Heteromeles arbutifolia*
- *Holodiscus discolor*
- *Malus sylvestris*
- *Oemleria cerasiformis*
- *Potentilla glandulosa* ssp. *glandulosa*
- *Prunus armeniaca*
- *Prunus cerasifera*
- *Prunus dulcis*
- *Pyracantha angustifolia*
- *Pyrus communis*

Chamise

Lady's mantle

Franchet cotoneaster

Toyon

Oceanspray

Apple

Oso berry

Sticky cinquefoil

Apricot

Cherry plum

Almond

Firethorn

Pear

- | | |
|---------------------------|-----------------------|
| □ <i>Pyrus cydonia</i> | Quince |
| □ <i>Rosa californica</i> | California rose |
| □ <i>Rosa gymnocarpa</i> | Dwarf rose, Wood rose |
| □ <i>Rubus discolor</i> | Himalaya blackberry |
| □ <i>Rubus ursinus</i> | California blackberry |

Rubiaceae

- | | |
|---|---------------|
| □ <i>Galium aparine</i> | Goosegrass |
| □ <i>Galium murale</i> | Tiny bedstraw |
| □ <i>Galium porrigens</i> var. <i>porrigens</i> | Bedstraw |

Rutaceae

- | | |
|---------------------------|----------|
| □ <i>Ptelea crenulata</i> | Hop tree |
|---------------------------|----------|

Salicaceae

- | | |
|--|--------------------|
| □ <i>Populus fremontii</i> ssp. <i>fremontii</i> | Fremont cottonwood |
| □ <i>Salix laevigata</i> | Red willow |
| □ <i>Salix lasiolepis</i> | Arroyo willow |

Saxifragaceae

- | | |
|-------------------------------------|------------------------|
| □ <i>Lithophragma affine</i> | Common woodland star |
| □ <i>Lithophragma heterophyllum</i> | Hillside woodland star |
| □ <i>Saxifraga californica</i> | California saxifrage |

Scrophulariaceae

- | | |
|---|-----------------------|
| □ <i>Bellardia trixago</i> | Bellardia |
| □ <i>Castilleja affinis</i> ssp. <i>affinis</i> | Indian paintbrush |
| □ <i>Castilleja attenuata</i> | Valley tassels |
| □ <i>Castilleja exserta</i> ssp. <i>exserta</i> | Purple owl's clover |
| □ <i>Castilleja foliolosa</i> | Woolly owl's clover |
| □ <i>Castilleja rubicundula</i> ssp. <i>lithospermoides</i> | Cream sacs |
| □ <i>Collinsia heterophylla</i> | Purple Chinese houses |
| □ <i>Collinsia sparsiflora</i> var. <i>sparsiflora</i> | Blue-eyed mary |
| □ <i>Linaria canadensis</i> | Blue toadflax |
| □ <i>Mimulus aurantiacus</i> | Sticky monkeyflower |
| □ <i>Scrophularia californica</i> ssp. <i>californica</i> | Figwort |
| □ <i>Triphysaria pusilla</i> | Dwarf owl's-clover |

- *Veronica persica*

Persian speedwell

Simaroubaceae

- *Ailanthus altissima*

Tree of heaven

Solanaceae

- *Solanum americanum*
- *Solanum umbelliferum*

American black nightshade

Blue-witch nightshade

Taxodiaceae

- *Sequoia sempervirens*

Coast redwood

Typhaceae

- *Typha angustifolia*

Narrow-leafed cattail

Urticaceae

- *Urtica urens*

Dwarf nettle

Valerianaceae

- *Plectritis brachystemon*
- *Plectritis ciliosa* ssp. *ciliosa*

Short spurred seablush

Long-spurred seablush

Viscaceae

- *Phoradendron macrophyllum*
- *Phoradendron villosum*

Big-leafed mistletoe

Oak mistletoe

Vitaceae

- *Vitis vinifera*

Grape

Zygophyllaceae

- *Tribulus terrestris*

Puncturevine

Species Potentially Found on Mount Wanda

The species on this list were not found during the course of our surveys in 2002. However, these species a) have been reported for Mount Wanda by reliable sources, b) are species typically known from the area, or c) are species that are unmistakable but may not have been reported in the area. Some of these are likely mis-identifications and some are quite possibly present on Mt. Wanda.

LATIN NAME**COMMON NAME****Apiaceae***Lomatium dasycarpum*

Lomatium

- Not observed on Mt. Wanda

Sanicula bipinnata

Poison sanicle

- Not observed on Mt. Wanda

Asteraceae*Agoseris heterophylla*

Mountain dandelion

- Not observed on Mt. Wanda, most likely a mistaken identification of *A. grandiflora**Filago californica*

Fluffweed

- Not observed on Mt. Wanda, (though common elsewhere), perhaps a mistaken identification of *F. gallica**Hesperis sparsiflora*

Evax

- Not observed on Mt. Wanda

Madia exigua

Threadstem tarweed

- Not observed on Mt. Wanda

Microseris elegans

Elegant silverpuffs

- Not observed on Mt. Wanda, possibly a mistaken identification of *Uropappus lindleyi* (formerly *Microseris lindleyi*)*Tragopogon porrifolius*

Salsify

- Not observed on Mt. Wanda, but unmistakable

Brassicaceae*Arabis glabra*

Tower mustard

- Not observed on Mt. Wanda

Coronopus didymus

Wartcress

- Not observed on Mt. Wanda

Caryophyllaceae

Cerastium glomeratum Sticky chickweed

- Not observed on Mt. Wanda, but common elsewhere

Chenopodiaceae

Chenopodium album Lambsquarter

- Not observed on Mt. Wanda, but common elsewhere

Cistaceae

Helianthemum scoparium Rushrose

- Not observed on Mt. Wanda, but unmistakable

Crassulaceae

Crassula connata Pygmy weed

- Not observed on Mt. Wanda

Fabaceae

Trifolium ciliolatum Ciliate clover

- Not observed on Mt. Wanda

Trifolium depauperatum Palesack clover

- Not observed on Mt. Wanda

Fagaceae

Quercus wislizenii Interior live oak

- Not observed on Mt. Wanda

Geraniaceae

Erodium brachycarpum Early filaree

- Not observed on Mt. Wanda

Juncaceae

Juncus bufonius Toad rush

- Not observed on Mt. Wanda

Lamiaceae

Pogogyne serpylloides Pogogyne

- Not observed on Mt. Wanda, (possibly a mistaken identification of *Triphysaria pusilla*?)

Lauraceae

Persea americana Avocado

- Not observed on Mt. Wanda

Liliaceae*Brodiaea coronaria*

Brodiaea

- Not observed on Mt. Wanda, and not known from area; unlikely to be confused with other species

Calochortus pulchellus

Mt. Diablo fairy lantern

- Not observed on Mt. Wanda, and impossible to confuse with other species. Note: this species is rare and endangered in California

Orobanchaceae*Orobanche uniflora*

Naked broom-rape

- Not observed on Mt. Wanda

Poaceae*Agrostis hallii*

Hall's bentgrass

- Not observed on Mt. Wanda, possibly a mistaken identification of *Melica torreyana* which looks very similar when not fully developed

Bromus laevipes

Woodland brome

- Not observed on Mt. Wanda

Poa pratensis

Kentucky bluegrass

- Not observed on Mt. Wanda

Vulpia octoflora

Six week fescue

- Not observed on Mt. Wanda

Polygonaceae*Pterostegia drymarioides*

Fairy-mist

- Not observed on Mt. Wanda

Ranunculaceae*Ranunculus aquatilis*

Water buttercup

- Not observed on Mt. Wanda. Original report was for var. *hispidulus*, which is not known from the area. Most likely var. *capillaceus*, if present on Mt. Wanda.

Ranunculus hebecarpus

Delicate buttercup

- Not observed on Mt. Wanda

Rubiaceae*Galium parisiense*

Wall bedstraw

- Not observed on Mt. Wanda, possibly a mistaken identification of *G. murale*

Saxifragaceae

Lithophragma bolanderi

Bolander's woodland star

- Not observed on Mt. Wanda

Scrophulariaceae

Triphysaria eriantha ssp. *eriantha*

Butter-and-eggs, Johnny-tuck

- Not observed on Mt. Wanda, perhaps mistaken ID of *Castilleja rubicundula* ssp. *lithospermoides*

Solanaceae

Nicotiana glauca

Tree tobacco

- Not observed on Mt. Wanda, and not known from the area, but very difficult to confuse with anything else

Rejected Species for Mt. Wanda

The plants on this list are species have been reported for Mt. Wanda in the past, and that we can say with some confidence are not to be found on Mt. Wanda.

LATIN NAME**COMMON NAME****Aceraceae***Acer macrophyllum*

Bigleaf maple

Apiaceae*Lomatium caruifolium*

Foothill lomatium

Asteraceae*Eriophyllum lanatum*

Common woolly sunflower

Eriophyllum staechadifolium

Seaside woolly sunflower

Hemizonia spp.

Sticky tarweed

Madia sativa

Coast tarweed

- Presumably a mistaken identification of *Madia gracilis*

Micropus amphibolus

Mt. Diablo cottonweed

- All *Micropus* present on Mt. Wanda appears to be *M. californicus* var. *californicus*

Wyethia glabra

Broadleaf mule ears

- All *Wyethia* present on Mt. Wanda appears to be either *W. angustifolia* or *W. helenoides*. *W. glabra* is not known from this area.

Boraginaceae*Amsinckia eastwoodiae*

Valley fiddleneck

- All *Amsinckia* present on Mt. Wanda appears to be *A. menziesii* var. *intermedi*.

Brassicaceae*Cardamine californica*

Milk maids

- All *Cardamine* present on Mt. Wanda appears to be *C. oligosperma*

Lepidium campestre

Poorman's peppergrass

Cupressaceae*Cupressus* sp.

Cypress

- The Cypress presumably referred to is just off of the Mt. Wanda property.

Ericaceae*Arbutus menziesii*

Madrone

Fabaceae

Cytisus scoparius Scotch broom

- Presumably a mistaken identification of *Genista monspessulana*

Trifolium aureum Hop clover

- Not known from the area

Trifolium fucatum Cow clover, Bull clover

Trifolium wormsjkoldii Cow clover

Fagaceae

Quercus dumosa Scrub oak

Hydrophyllaceae

Nemophila maculata Fivespot

Nemophila menziesii Baby blue-eyes

Lamiaceae

Monardella odoratissima Mountain monardella

- Not known from the area

Liliaceae

Calochortus superb Superb mariposa lily

- Presumably a mistaken identification of *C. venustus*

Onagraceae

Clarkia amoena

*Clarkia gracilis** Farewell to spring

- Not known from the area

Clarkia purpurea ssp. *quadrivulnera* Winecup clarkia

- See extensive explanation under *Clarkia affinis* on the main species list

Pinaceae

Pinus coulteri Coulter pine

- Not present on Mt. Wanda, and not known from the area. There are several planted pines just off the property near the Cypress mentioned above.

Poaceae

Lamarckia aurea Goldentop

- Presumably a mistaken identification of *Cynosorus echinatus*

Panicum hillmannii Panic grass

- Not known from the area

Phalaris canariensis

Canary grass

- Presumably a mistaken identification of *P. paradoxa*

Sorghum halapense

Johnson grass

- Not known from the area

Polygonaceae

Eriogonum latifolium

Buckwheat

- Presumably a mistaken identification of *Eriogonum nudum* var. *auriculatum*

Rosaceae

Malus floribunda

Showy crabapple

- Presumably a mistaken identification of *Pyrus cydonia*

Prunus avium

Sweet cherry

- From notes in the 1992 Hunter et al. study, it is clear that this was a mistaken identification of *P. cerasifera*

Potentilla rivalis

Cinquefoil

- Not known from the area

Salicaceae

Salix lasiandra

Yellow willow

Solanum xantii

Nightshade

- Presumably a mistaken identification of *S. umbelliferum*

Plant Species Checklist for John Muir N.H.S. –
House Property

LATIN NAME**COMMON NAME****Acanthaceae**✧ *Acanthus mollis**

Bear's breach

Agavaceae□ *Agave americana**

Century plant

Amaranthaceae□ *Amaranthus albus*

Tumbleweed

□ *Amaranthus blitoides*

Prostrate pigweed

□ *Amaranthus retroflexus*

Rough pigweed

Amaryllidaceae□ *Agapanthus orientalis**

Lily of the Nile

□ *Amaryllis belladonna**

Naked lady

□ *Narcissus sp.**

Daffodil, Narcissus

Anacardiaceae□ *Rhus ovata**

Sugar bush

□ *Schinus molle**

Peruvian peppertree

□ *Toxicodendron diversilobum*

Poison oak

Apiaceae□ *Anthriscus caucalis*

Bur-chevril

□ *Conium maculatum*

Poison hemlock

□ *Foeniculum vulgare*

Fennel

□ *Torilis arvensis*

Field hedge parsley

□ *Torilis nodosa*

Knotted hedge parsley

Apocynaceae□ *Trachelospermum jasminoides**

Star jasmine

□ *Vinca major*

Periwinkle

Araceae□ *Alocasia macrorrhiza**

Elephant's ear

□ *Monstera deliciosa**

Split leaf philodendron

- *Zantedeschia aethiopica**

Calla lily

Araliaceae

- *Hedera canariensis**

Algerian ivy

- *Hedera helix**

English ivy

Asteraceae

- *Artemisia douglasiana*

California mugwort

- *Baccharis douglasii*

Marsh baccharis

- *Baccharis pilularis*

Coyote brush

- *Carduus pycnocephalus*

Italian thistle

- *Chamomilla suaveolens*

Pineapple weed

- *Cirsium vulgare*

Bull thistle

- *Hypochoeris radicata*

Smooth cat's ear

- *Lactuca serriola*

Prickly lettuce

- *Picris echioides*

Bristley ox-tongue

- *Senecio vulgaris*

Groundsel

- *Silybum marianum*

Milk thistle

- *Sonchus asper* ssp. *asper*

Prickly sow-thistle

- *Taraxacum officinale*

Dandelion

Berberidaceae

- *Mahonia aquifolium**

Oregon grape

Betulaceae

- *Betula nigra**

River birch

Bignoniaceae

- *Tecomaria capensis**

Cape honeysuckle

Brassicaceae

- *Brassica nigra*

Black mustard

- *Brassica rapa*

Field mustard

- *Capsella bursa-pastoris*

Shepherd's purse

- *Cardamine oligosperma*

Bittercress

- *Hirschfeldia incana*

Hoary mustard

- *Raphanus sativus*

Wild radish

- *Rorippa nasturtium-aquaticum*

Watercress

Campanulaceae

- *Campanula medium**

Canterbury bells

Caprifoliaceae

- *Sambucus mexicana*
- *Symphoricarpos albus* ssp. *laevigatus*

Black elderberry

Snowberry

Caryophyllaceae

- *Dianthus deltoides**
- *Stellaria media*

Maiden pink

Chickweed

Convolvulaceae

- *Convolvulus arvensis*
- *Convolvulus cneorum*

Bindweed

Bush morning glory

Cornaceae

- *Aucuba japonica**

Varigated gold dust plant

Crassulaceae

- *Sedum telphium* var. *autumn joy**

Stone crop

Cucurbitaceae

- *Marah fabaceus*

California manroot

Cupressaceae

- *Calocedrus decurrens**
- *Cupressocyparis leylandii**
- *Cupressus funebris**
- *Thuja occidentalis**

Incense cedar

Leyland cypress

Mourning cypress

American arborvitae

Cyperaceae

- *Carex aquatalis* ssp. *dives*
- *Cyperus eragrostis*
- *Scirpus maritimus*

Sitka sedge

Tall cyperus

Prairie rush

Dennstaedtiaceae

- *Pteridium aquilinum**

Bracken fern

Ericaceae

- *Arbutus unedo**
- *Arctostaphylos manzanita**
- *Gaultheria shallon**

Strawberry tree

Common manzanita

Salal

Euphorbiaceae

- *Euphorbia oblongata*
- *Euphorbia peplus*

Oblong spurge

Petty spurge

- *Euphorbia spathulata*

Spatulate leafed spurge

Fabaceae

- *Acacia longifolia**
- *Ceratonia siliqua**
- *Gliditsia triacanthos**
- *Medicago polymorpha*
- *Prosopis glandulosa* var. *torreyana**
- *Robinia pseudoacacia**
- *Trifolium incarnatum*
- *Trifolium* sp.
- *Vicia sativa* ssp. *nigra*

Sydney golden wattle
Carob
Honey locust
California burclover
Honey mesquite
Black locust
Crimson clover
Clover (lawn weed)
Spring vetch

Fagaceae

- *Quercus agrifolia*
- *Quercus garryana**
- *Quercus lobata*
- *Quercus suber**

Coastal live oak
Oregon white oak
Valley Oak
Cork oak

Garryaceae

- *Garrya elliptica**

Coast silk tassel

Geraneaceae

- *Erodium botrys*
- *Erodium cicutarium*
- *Erodium moschatum*
- *Geranium dissectum*
- *Geranium molle*
- *Pelargonium hortorum**

Long-beaked stork's bill
Red-stemmed stork's bill
Whitestem filaree
Cut-leaf geranium
Crane's bill geranium
Common geranium

Grossulariaceae

- *Ribes speciosum**

Fuchsia flowered gooseberry

Hamamelidaceae

- *Liquidamber styraciflua**

Sweetgum

Hippocastanaceae

- *Aesculus californica*

California buckeye

Iridaceae

- *Chasmanthe aethiopica**

Chasmanthe

□ *Gladiolus hortus**

Gladiolus

□ *Iris douglasiana**

Douglas iris

□ *Iris germanica**

Bearded iris

Juglandaceae

□ *Carya illinoensis**

Pecan

□ *Juglans californica* var. *hindsii*

California black walnut

□ *Juglans regia*

English walnut

Juncaceae

□ *Juncus patens*

Spreading rush

Lamiaceae

□ *Lamium amplexicaule*

Clasping henbit

□ *Lavendula angustifolia**

English lavender

□ *Lavendula dentata**

French lavender

□ *Mentha spicata* var. *spicata*

Spearmint

□ *Salvia clevelandii**

Cleveland sage

□ *Salvia greggii**

Autumn sage

□ *Salvia leucocephylla**

Purple sage

□ *Salvia splendens**

Scarlet sage

□ *Salvia sonomensis**

Sonoma sage

Lauraceae

□ *Laurus nobilis**

Sweet bay

□ *Umbellularia californica**

California bay laurel

Liliaceae

□ *Allium neopolitana**

White garlic

□ *Kniphofia uvaria**

Red hot poker

Malvaceae

□ *Malva nicaeensis*

Bull mallow

□ *Malvella leprosa*

Alkali mallow

Moraceae

□ *Ficus carica**

Fig

□ *Ficus pumila**

Creeping fig

□ *Morus alba**

White mulberry

Myricaceae

- *Myrica californica**

Pacific wax myrtle

Myrtaceae

- *Callistemon citrinus**
- *Eucalyptus sp.**
- *Feijoa sellowiana**
- *Myrtus communis**

Lemon bottlebrush

Australian gum tree

Pineapple guava

True myrtle

Oleaceae

- *Ligustrum ovalifolium**
- *Olea europea**
- *Osmanthus heterophyllus**
- *Syringa vulgaris**

California privet

Olive

False holly

Common lilac

Onagraceae

- *Epilobium canum* ssp. *canum**
- *Epilobium ciliatum* ssp. *ciliatum*
- *Epilobium minutum*
- *Gaura lindheimeri**

California fuchsia

Willow herb

Slender annual fireweed

Gaura

Oxalidaceae

- *Oxalis pes-caprae*

Bermuda buttercup

Palmae

- *Phoenix canariensis**
- *Washingtonia filifera**
- *Washingtonia robusta**

Canary Island date palm

California fan palm

Mexican fan palm

Papaveraceae

- *Eschscholzia californica*
- *Romneya coulteri**

California poppy

Matilija poppy

Philadelphaceae

- *Philadelphus lewisii**

Pinaceae

- *Cedrus atlantica**
- *Cedrus deodara**
- *Cedrus libani**
- *Picea glauca**
- *Picea pungens**

Atlas cedar

Deodar cedar

Cedar of Lebanon

White spruce

Colorado spruce

- *Picea sitchensis**
- *Pinus ponderosa**
- *Pinus radiata**
- *Pseudotsuga menziesii**

Sitka spruce
Ponderosa pine
Monterey pine
Douglas fir

Pittosporaceae

- *Pittosporum tobira**

Tobira

Plantaginaceae

- *Plantago lanceolata*
- *Plantago major*

Lanceleaf plantain, English plantain
Big-leafed plantain

Poaceae

- *Agrostis stolonifera*
- *Arundo donax*
- *Avena fatua*
- *Bromus diandrus*
- *Bromus carinatus* var. *carinatus*
- *Bromus hordeaceus*
- *Cynodon dactylon*
- *Festuca rubra**
- *Hordeum marinum* var. *gussonianum*
- *Hordeum murinum* var. *leporinum*
- *Leymus triticoides*
- *Nassella pulchra*
- *Phalaris aquatica*
- *Poa annua*
- *Poa pratensis*
- *Polypogon monspeliensis*
- *Triticum aestivum*
- *Vulpia myuros* ssp. *hirsuta*

Creeping bent
Giant reed
Wild oat
Rip-gut brome
California brome
Soft chess
Bermuda grass
Red fescue
Mouse barley
Foxtail barley
Creeping wild rye
Purple needlegrass
Harding grass, Canary grass
Annual bluegrass
Kentucky bluegrass
Rabbit's foot grass
Wheat
Fox-tail fescue

Polygonaceae

- *Polygonum arenastrum*
- *Rumex crispus*
- *Rumex pulcher*

Common knotweed
Curley dock, Yellow dock
Fiddle dock

Portulacaceae

□ *Claytonia perfoliata*

Miner's lettuce

□ *Portulaca oleracea*

Common purslane

Primulaceae

□ *Anagallis arvensis*

Scarlet pimpernel

Punicaceae

□ *Punica granatum**

Pomegranite

Ranunculaceae

□ *Clematis armanii**

Evergreen clematis

Roseaceae

□ *Chaenomeles lagenaria**

Japanese quince

□ *Cotoneaster franchetii**

Franchet cotoneaster

□ *Cotoneaster lacteus**

Big-leafed cotoneaster

□ *Crataegus laevigata**

English hawthorn

□ *Cydonia oblonga**

Quince

□ *Eriobotrya japonica**

Loquat

□ *Heteromeles arbutifolia*

Toyon

□ *Malus sylvestris, (domesticus?)**

Apple

□ *Prunus armeniaca**

Apricot

□ *Prunus avium**

Sweet cherry

□ *Prunus cerasifera**

Cherry plum

□ *Prunus domestica**

Plum

□ *Prunus dulcis**

Almond

□ *Prunus ilicifolia ssp. ilicifolia**

Holly-leaved cherry

□ *Prunus lyonii**

Catalina cherry

□ *Prunus persica**

Peach

□ *Prunus salicina**

Japanese plum

□ *Pyracantha coccinea**

Firethorn

□ *Pyrus communis**

Common pear

□ *Rhaphiolepis indica**

Indian hawthorn

□ *Rosa banksiae**

Lady banks rose

□ *Rosa californica*

California rose

□ *Rosa harisonii**

Harison's yellow rose

□ *Rosa laevigata**

Cherokee rose

<input type="checkbox"/> <i>Rosa</i> sp.*	Rose
<input type="checkbox"/> <i>Rubus discolor</i>	Himalaya blackberry
Rubiaceae	
<input type="checkbox"/> <i>Galium aparine</i>	Bedstraw
Rutaceae	
<input type="checkbox"/> <i>Citrus limon</i> *	Lemon
<input type="checkbox"/> <i>Citrus sinensis</i> *	Orange
Salicaceae	
<input type="checkbox"/> <i>Salix laevigata</i>	Red willow
<input type="checkbox"/> <i>Salix lasiolepis</i>	Arroyo willow
Saxifragaceae	
<input type="checkbox"/> <i>Bergenia crassifolia</i> *	Winter blooming bergenia
<input type="checkbox"/> <i>Carpenteria californica</i> *	Bush anemone
<input type="checkbox"/> <i>Deutzia scabra</i> *	Deutzia
<input type="checkbox"/> <i>Heuchera micrantha</i> *	Alum root, Coral bells
<input type="checkbox"/> <i>Hydrangea macrophylla</i> *	Big leaf hydrangea
Scrophulariaceae	
<input type="checkbox"/> <i>Kickxia elatine</i>	Fluellin
Solanaceae	
<input type="checkbox"/> <i>Nicotiana glauca</i> *	Tree tobacco
Sterculiaceae	
<input type="checkbox"/> <i>Fremontodendron californica</i> *	Flannel bush
Tamariaceae	
<input type="checkbox"/> <i>Tamarix gallica</i> *	Tamarisk
Taxodiaceae	
<input type="checkbox"/> <i>Sequoia sempervirens</i> *	Coast redwood
<input type="checkbox"/> <i>Sequoiadendron giganteum</i> *	Giant sequoia
Thymelaeaceae	
<input type="checkbox"/> <i>Daphne odora</i> *	Winter daphne
Ulmaceae	
<input type="checkbox"/> <i>Ulmus pumila</i> *	Siberian elm
Urticaceae	
<input type="checkbox"/> <i>Urtica dioica</i> ssp. <i>holosericea</i>	
Valerianaceae	

- *Centranthus ruber**

Red valerian

Verbenaceae

- *Phyla nodiflora* var. *nodiflora*

Common lippia

Viscaceae

- *Phoradendron macrophyllum*

Big leaf mistletoe

Vitaceae

- *Parthenocissus vitacea*

Woodbine, Virginia creeper

- *Vitis vinifera**

Grape

Zygophyllaceae

- *Tribulus terrestris*

Puncturevine

Plant Species Checklist for John Muir N.H.S.**Gravesite****LATIN NAME****COMMON NAME****Anacardiaceae**

- ☐ *Toxicodendron diversilobum*

Poison oak

Apiaceae

- ☐ *Torilis arvensis*

Field hedge parsley

Apocynaceae

- ☐ *Nerium oleander*

Oleander

- ☐ *Vinca major*

Periwinkle

Araliaceae

- ☐ *Hedera helix*

English ivy

Asteraceae

- ☐ *Artemisia douglasiana*

California mugwort

- ☐ *Baccharus pilularis*

Coyote brush

- ☐ *Carduus pycnocephalus*

Italian thistle

- ☐ *Cirsium vulgare*

Bull thistle

- ☐ *Helenium puberulum*

Sneeze-weed, Rosilla

- ☐ *Lactuca serriola*

Prickly lettuce

- ☐ *Picris echioides*

Bristly ox-tongue

- ☐ *Senecio vulgaris*

Groundsel

- ☐ *Sonchus oleraceus*

Common sow thistle

- ☐ *Xanthium strumarium*

Cocklebur

Betulaceae

- ☐ *Corylus cornuta* var. *californica*

California hazelnut

Brassicaceae

- ☐ *Brassica rapa*

Field mustard

- ☐ *Cardamine oligosperma*

Bittercress

- ☐ *Rorippa nasturtium-aquaticum*

Watercress

Caprifoliaceae

- *Sambucus mexicana*

Black elderberry

Caryophyllaceae

- *Stellaria media*

Chickweed

Convolvulaceae

- *Convolvulus arvensis*

Bindweed

Cucurbitaceae

- *Marah fabaceus*

California manroot

Cupressaceae

- *Calocedrus decurrens*

Incense cedar

- *Cupressus* sp.

Cypress

- *Juniperus* sp.

Juniper

Dryopteridaceae

- *Polystichum munitum*

Western sword fern

Euphorbiaceae

- *Euphorbia oblongata*

Oblong spurge

- *Euphorbia peplus*

Petty spurge

Fabaceae

- *Medicago polymorpha*

California bur clover

- *Melilotus indica*

Sour clover

- *Robinia pseudoacacia*

Black locust

Fagaceae

- *Quercus agrifolia*

Coastal live oak

- *Quercus lobata*

Valley oak

Geraneaceae

- *Erodium moschatum*

Whitestem filaree

- *Geranium dissectum*

Cut-leaf geranium

Hamamelidaceae

- *Liquidambar styraciflua*

Sweetgum

Hippocastanaceae

- *Aesculus californica*

California buckeye

Juglandaceae

- *Juglans californica* var. *hindsii*

California black walnut

□ <i>Juglans regia</i>	English walnut
Lamiaceae	
□ <i>Melissa officinalis</i>	Sweet melissa
□ <i>Mentha spicata</i> var. <i>spicata</i>	Spearmint
□ <i>Stachys ajugoides</i> var. <i>rigida</i>	Hedge nettle
Liliaceae	
□ <i>Agapanthus orientalis</i>	Lilly of the Nile
□ <i>Narcissus</i> sp.	Narcissus, Daffodil
Lauraceae	
□ <i>Umbellularia californica</i>	California bay
Malvaceae	
□ <i>Malva nicaeensis</i>	Bull mallow
Myrtaceae	
□ <i>Eucalyptus viminalis</i>	Manna gum
Oxalidaceae	
□ <i>Oxalis pes-caprae</i>	Bermuda buttercup
Onagraceae	
□ <i>Epilobium ciliatum</i> ssp. <i>ciliatum</i>	Willow herb
Papaveraceae	
□ <i>Dicentra formosa</i>	Bleeding heart
□ <i>Eschscholzia californica</i>	California poppy
Philadelphaceae	
□ <i>Philadelphus lewisii</i>	Mock orange
Pinaceae	
□ <i>Cedrus atlantica</i>	Atlas cedar
□ <i>Pinus sabiniana</i>	Grey Pine
□ <i>Pinus</i> sp.	Pine
Plantaginaceae	
□ <i>Plantago major</i>	Big leaf plantain
Platanaceae	
□ <i>Platanus racemosa</i>	California sycamore
Poaceae	
□ <i>Arundo donax</i>	Giant reed

<input type="checkbox"/> <i>Avena fatua</i>	Wild oat
<input type="checkbox"/> <i>Avena barbata</i>	Slender wild oat
<input type="checkbox"/> <i>Bromus diandrus</i>	Rip-gut brome
<input type="checkbox"/> <i>Cynodon dactylon</i>	Bermuda grass
<input type="checkbox"/> <i>Cynosurus echinatus</i>	Hedgehog dogtail
<input type="checkbox"/> <i>Gastridium ventricosum</i>	Nit grass
<input type="checkbox"/> <i>Hordeum murinum</i> var. <i>leporinum</i>	Mouse barley
<input type="checkbox"/> <i>Leymus triticoides</i>	Creeping wild rye
<input type="checkbox"/> <i>Lolium multiflorum</i>	Italian ryegrass
<input type="checkbox"/> <i>Poa annua</i>	Annual bluegrass
<input type="checkbox"/> <i>Polypogon monspeliensis</i>	Rabbit's foot grass
Polygonaceae	
<input type="checkbox"/> <i>Rumex crispus</i>	Curly dock, Yellow dock
<input type="checkbox"/> <i>Rumex pulcher</i>	Fiddle dock
Portulacaceae	
<input type="checkbox"/> <i>Claytonia perfoliata</i>	Miner's lettuce
Primulaceae	
<input type="checkbox"/> <i>Anagalis arvensis</i>	Scarlet pimpernel
Punicaceae	
<input type="checkbox"/> <i>Punica granatum</i>	Pomegranite
Roseaceae	
<input type="checkbox"/> <i>Crataegus</i> sp.	Hawthorn
<input type="checkbox"/> <i>Malus sylvestris</i>	Apple
<input type="checkbox"/> <i>Pyrus communis</i>	Common pear
<input type="checkbox"/> <i>Prunus cerasifera</i>	Cherry plum
<input type="checkbox"/> <i>Prunus ilicifolia</i> ssp. <i>ilicifolia</i>	Holly-leaved cherry
<input type="checkbox"/> <i>Prunus persica</i>	Peach
<input type="checkbox"/> <i>Rosa californica</i>	California rose
<input type="checkbox"/> <i>Rubus discolor</i>	Himalaya blackberry
<input type="checkbox"/> <i>Rubus ursinus</i>	California blackberry
Rubiaceae	
<input type="checkbox"/> <i>Galium aparine</i>	Bedstraw
Salicaceae	

□ *Salix laevigata*

Red willow

□ *Salix lasiolepis*

Arroyo willow

Scrophulariaceae

□ *Scrophularia californica* ssp. *californica*

Figwort

□ *Veronica persica*

Persian speedwell

Taxodiaceae

□ *Sequoia sempervirens*

Redwood

□ *Sequoiadendron giganteum*

Giant sequoia

Urticaceae

□ *Urtica dioica* ssp. *holosericea*

Hoary nettle

Vitaceae

□ *Parthenocissus vitacea*

Woodbine, Virginia creeper

Zygophyllaceae

□ *Tribulus terrestris*

Puncturevine

Plant Species Checklist for Eugene O'Neill N.H.S.**LATIN NAME****COMMON NAME****Aceraceae**

- ☐ *Acer macrophyllum*

Big-leafed maple

Amaranthaceae

- ☐ *Amaranthus albus*
- ☐ *Amaranthus blitoides*
- ☐ *Amaranthus powellii*
- ☐ *Amaranthus retroflexus*

Tumbleweed
Prostrate pigweed
Powell's pigweed
Rough pigweed

Anacardiaceae

- ☐ *Toxicodendron diversilobum*

Poison oak

Apiaceae

- ☐ *Anthriscus caucalis*
- ☐ *Heracleum lanatum*
- ☐ *Osmorhiza chilensis*
- ☐ *Sanicula crassicaulis*
- ☐ *Torilis arvensis*
- ☐ *Torilis nodosa*

Bur-chevril
Cow parsnip
Wood cicely
Pacific snakeroot
Field hedge parsley
Knotted hedge parsley

Aristolochiaceae

- ☐ *Aristolochia californica*

Dutchman's pipe

Asteraceae

- ☐ *Agoseris grandiflora*
- ☐ *Achillea millefolium*
- ☐ *Artemisia douglasiana*
- ☐ *Aster chilensis*
- ☐ *Aster radulinus*
- ☐ *Baccharis pilularis*
- ☐ *Carduus pycnocephalus*
- ☐ *Centaurea solstitialis*
- ☐ *Chamomilla suaveolens*
- ☐ *Cirsium vulgare*

California dandelion
Yarrow
California mugwort
Common California aster
Broad-leaved aster, Woodland aster
Coyote brush
Italian thistle
Yellow star thistle
Pineapple weed
Bull thistle

□ <i>Cynara cardunculus</i>	Artichoke thistle
□ <i>Filago galica</i>	Fluffweed
□ <i>Gnaphalium luteo-album</i>	Cudweed
□ <i>Helenium puberulum</i>	Sneezeweed, Rosilla
□ <i>Hypochaeris glabra</i>	Smooth cat's ear
□ <i>Hypochaeris radicata</i>	Hairy cat's ear
□ <i>Lactuca serriola</i>	Prickly lettuce
□ <i>Madia gracilis</i>	Slender tarweed
□ <i>Picris echinoides</i>	Bristly ox-tongue
□ <i>Senecio vulgaris</i>	Groundsel
□ <i>Silybum marianum</i>	Milk thistle
□ <i>Soliva sessilis</i>	South American soliva
□ <i>Sonchus asper</i> ssp. <i>asper</i>	Prickly sow thistle
□ <i>Taraxacum officinale</i>	Dandelion
□ <i>Tragopogon porrifolius</i>	Salsify
□ <i>Xanthium spinosum</i>	Spiny cocklebur

Blechnaceae

□ <i>Woodwardia fimbriata</i>	Giant chain fern
-------------------------------	------------------

Boraginaceae

□ <i>Amsynchia mensiesii</i> var. <i>intermedia</i>	Common fiddleneck
□ <i>Cynoglossum grande</i>	Grand hound's tongue
□ <i>Myosotis latifolia</i>	Forget-me-not

Brassicaceae

□ <i>Brassica rapa</i>	Field mustard
□ <i>Capsella bursa-pastoris</i>	Shepherd's purse
□ <i>Cardamine californica</i>	Milkmaids
□ <i>Cardamine oligosperma</i>	Bittercress
□ <i>Lepidium nitidum</i> var. <i>nitidum</i>	Poorman's peppergrass
□ <i>Raphanus sativus</i>	Wild radish
□ <i>Sisymbrium officinale</i>	Hedge mustard
□ <i>Sinapis arvensis</i>	Charlock

Caprifoliaceae

□ <i>Lonicera hispidula</i> var. <i>vacillans</i>	California honeysuckle
---	------------------------

- *Sambucus mexicana*
- *Symphoricarpos albus* var. *laevigatus*

Black elderberry
Snowberry

Caryophyllaceae

- *Polycarpon tetraphyllum*
- *Spergula arvensis*
- *Spergularia rubra*
- *Stellaria media*

Four-leafed allseed
Spurrey
Sand spurrey
Chickweed

Convolvulaceae

- *Convolvulus arvensis*

Bindweed

Cucurbitaceae

- *Marah fabaceus*

California manroot

Dryopteridaceae

- *Dryopteris arguta*
- *Polystichum munitum*

Wood fern
Western sword fern

Equisetaceae

- *Equisetum telmateia* ssp. *braunii*

Giant horsetail

Ericaceae

- *Arbutus menziesii*

Madrone

Euphorbiaceae

- *Chamaesyce maculata*
- *Eremocarpus setigerus*
- *Euphorbia peplus*

Spotted spurge
Dove weed, Turkey mullein
Petty spurge

Fabaceae

- *Lathyrus vestitus* var. *vestitus*
- *Lupinus nanus*
- *Medicago arabica*
- *Medicago polymorpha*
- *Trifolium dubium*
- *Trifolium glomeratum*
- *Trifolium hirtum*
- *Trifolium subterraneum*
- *Vicia benghalensis*
- *Vicia sativa* ssp. *nigra*

Hillside pea
Sky lupine
Spotted bur clover
California bur clover
Little hop clover, Shamrock
Clustered clover
Rose clover
Subterranean clover
Purple vetch
Spring vetch

Fagaceae

- *Quercus agrifolia* Coastal live oak
- *Quercus kelloggii* Black oak
- *Quercus lobata* Valley oak

Geraniaceae

- *Erodium botrys* Long-beaked stork's bill
- *Erodium cicutarium* Red-stemmed stork's bill
- *Erodium moschatum* Whitestem filaree
- *Geranium dissectum* Cut-leaved geranium

Hippocastanaceae

- *Aesculus californica* California buckeye

Hydrophyllaceae

- *Nemophila heterophylla* Canyon nemophila

Iridaceae

- *Sisyrinchium bellum* Blue-eyed grass

Juglandaceae

- *Juglans californica* var. *hindsii* California black walnut
- *Juglans regia* English walnut

Juncaceae

- *Juncus patens* Spreading rush
- *Juncus xiphioides* Iris-leafed rush

Lamiaceae

- *Lamium amplexicaule* Clasping henbit
- *Satureja douglasii* Yerba buena
- *Stachys ajugoides* ssp. *rigida* Hedge nettle

Lauraceae

- *Umbellularia californica* California bay

Liliaceae

- *Calochortus albus* White globe lily
- *Dichelostemma capitatum* ssp. *capitatum* Blue dicks
- *Dichelostemma congestum* Round-toothed ookow
- *Chlorogalum pomeridianum* ssp. *pomeridianum* Wavy-leaved soap plant
- *Smilacena stellata* False solomon's seal
- *Trillium chloropetalum* Giant trillium

Malvaceae

- *Malva nicaeensis*

Bull mallow

Moraceae

- *Ficus carica*

Fig

Myrtaceae

- *Eucalyptus globulus*

Tasmanian bluegum

Onagraceae

- *Clarkia affinis*
- *Clarkia purpurea* ssp. *quadrivulnera*
- *Epilobium brachycarpum*
- *Epilobium ciliatum* ssp. *ciliatum*

Chaparral clarkia

Winecup clarkia

Annual fireweed

Willow herb

Oxalidaceae

- *Oxalis corniculata*
- *Oxalis pes-caprae*

Wood sorrel

Bermuda buttercup

Papaveraceae

- *Eschscholzia californica*

California poppy

Pinaceae

- *Pinus sabiniana*

Grey Pine

Plantaginaceae

- *Plantago lanceolata*

Lanceleaf plantain, English plantain

Poaceae

- *Aira caryophylla*
- *Avena barbata*
- *Avena fatua*
- *Briza minor*
- *Bromus carinatus*
- *Bromus diandrus*
- *Bromus hordeaceus*
- *Cynodon dactylon*
- *Cynosorus echinatus*
- *Dactylis glomerata*
- *Deschampsia elongata*
- *Elymus glaucus*

Hairgrass

Slender wild oat

Wild oat

Quaking grass

California brome

Rip-gut brome

Soft chess

Bermuda grass

Hedgehog dogtail

Orchard grass

Slender hairgrass

Blue wildrye

<input type="checkbox"/> <i>Hordeum marinum</i> var. <i>gussonianum</i>	Mouse barley
<input type="checkbox"/> <i>Hordeum murinum</i> var. <i>leporinum</i>	Foxtail barley
<input type="checkbox"/> <i>Lolium multiflorum</i>	Italian rye grass
<input type="checkbox"/> <i>Melica torreyana</i>	Torrey melic
<input type="checkbox"/> <i>Phalaris aquatica</i>	Harding grass
<input type="checkbox"/> <i>Phalaris minor</i>	Littleseed canary grass
<input type="checkbox"/> <i>Piptatherum milliaceum</i>	Smilo grass
<input type="checkbox"/> <i>Poa annua</i>	Annual bluegrass
<input type="checkbox"/> <i>Polypogon monspeliensis</i>	Rabbit's foot grass
<input type="checkbox"/> <i>Triticum aestivum</i>	Wheat
<input type="checkbox"/> <i>Vulpia bromoides</i>	Brome fescue
<input type="checkbox"/> <i>Vulpia myuros</i> ssp. <i>myuros</i>	Rat-tail fescue
Polygonaceae	
<input type="checkbox"/> <i>Polygonum arenastrum</i>	Common knotweed
<input type="checkbox"/> <i>Rumex crispus</i>	Curly dock, Yellow dock
<input type="checkbox"/> <i>Rumex pulcher</i>	Fiddle dock
Polypodiaceae	
<input type="checkbox"/> <i>Polypodium calirhiza</i>	California polypody
Portulacaceae	
<input type="checkbox"/> <i>Calandrinia ciliata</i>	Red maids
<input type="checkbox"/> <i>Claytonia perfoliata</i>	Miner's lettuce
Primulaceae	
<input type="checkbox"/> <i>Anagallis arvensis</i>	Scarlet pimpernel
Pteridaceae	
<input type="checkbox"/> <i>Adiantum jordanii</i>	Maidenhair fern
<input type="checkbox"/> <i>Pentagramma triangularis</i>	Goldback fern
Ranunculaceae	
<input type="checkbox"/> <i>Ranunculus californicus</i>	California buttercup
Roseaceae	
<input type="checkbox"/> <i>Cotoneaster franchetii</i>	Franchet cotoneaster
<input type="checkbox"/> <i>Heteromeles arbutifolia</i>	Toyon
<input type="checkbox"/> <i>Rubus discolor</i>	Himalaya blackberry
<input type="checkbox"/> <i>Rubus ursinus</i>	California blackberry

- *Prunus cerasifera*
- *Potentilla glandulosa* ssp. *glandulosa*

Cherry plum
Sticky cinquefoil

Rubiaceae

- *Galium aparine*
- *Galium murale*
- *Galium porrigens* ssp. *porigens*
- *Sherardia arvensis*

Bedstraw
Tiny bedstraw
Wall bedstraw
Field madder

Salicaceae

- *Salix lasiolepis*

Arroyo willow

Saxifragaceae

- *Lithophragma heterophyllum*

Hillside woodland star

Scrophulariaceae

- *Mimulus aurantiacus*
- *Scrophularia californica*
- *Veronica persica*

Sticky monkey flower
California figwort
Persian speedwell

Solanaceae

- *Solanum americanum*
- *Solanum umbelliferum*

Small-flowered nightshade
Blue-witch nightshade

Typhaceae

- *Typha latifolia*

Broad-leafed cattail

Urticaceae

- *Urtica dioica* ssp. *holosericea*
- *Urtica urens*

Stinging nettle, Hoary nettle
Dwarf nettle

Verbenaceae

- *Phyla nodiflora* var. *nodiflora*

Common lippia

Viscaceae

- *Phoradendron macrophyllum*
- *Phoradendron villosum*

Big leaf mistletoe
Oak mistletoe

Vitaceae

- *Vitis vinifera*

Grape

Zygophyllaceae

- *Tribulus terrestris*

Puncturevine

Plant Species Checklist for Port Chicago N.M.**LATIN NAME****COMMON NAME****Amaranthaceae**

- ☐ *Amaranthus blitoides*

Prostrate pigweed

Aizoaceae

- ☐ *Carpobrotus edulis*

Iceplant

Apiaceae

- ☐ *Apium graveolens*
- ☐ *Foeniculum vulgare*

Celery

Fennel

Asteraceae

- ☐ *Baccharis pilularis*
- ☐ *Carduus pycnocephalus*
- ☐ *Gnaphalium luteo-album*
- ☐ *Grindelia stricta* var. *angustifolia*
- ☐ *Helenium puberulum*
- ☐ *Hypochaeris radicata*
- ☐ *Jaumea carnosa*
- ☐ *Lactuca serreola*
- ☐ *Picris echioides*
- ☐ *Sonchus asper* ssp. *asper*

Coyote brush

Italian thistle

Cudweed

Marsh gumplant

Sneezeweed, Rosilla

Hairy cat's ear

Fleshy jaumea

Prickly lettuce

Bristly ox-tongue

Prickly sow-thistle

Brassicaceae

- ☐ *Brassica nigra*
- ☐ *Hirschfeldia incana*
- ☐ *Lepidium latifolium*
- ☐ *Raphanus sativus*

Black mustard

Hoary mustard

Perennial pepperweed

Wild radish

Caryophyllaceae

- ☐ *Polycarpon tetraphyllum*
- ☐ *Spergularia rubra*

Four-leaved allseed

Sand spurrey

Chenopodiaceae

- ☐ *Atriplex triangularis*.
- ☐ *Salicornia virginica*
- ☐ *Salsola soda*

Spearscale

Pickleweed

Russian thistle

Convolvulaceae

- *Convolvulus arvensis*

Bindweed

Cyperaceae

- *Scirpus americanus*
- *Scirpus californica*
- *Scirpus cernuus*

Three square

California bulrush

Low clubrush

Euphorbiaceae

- *Chamaesyce maculata*

Spotted spurge

Fabaceae

- *Lotus corniculatus*
- *Medicago polymorpha*
- *Melilotus alba*
- *Melilotus indica*

Bird's foot lotus

California bur clover

White sweetclover

Sour clover

Geraniaceae

- *Erodium cicutarium*
- *Geranium dissectum*
- *Erodium moschatum*

Red-stemmed stork's bill

Cut-leaved geranium

Whitestem filaree

Juncaceae

- *Juncus balticus*

Wire rush

Onagraceae

- *Epilobium brachycarpum*

Annual fireweed

Papaveraceae

- *Eschscholzia californica*

California poppy

Plumbaginaceae

- *Limonium californicum*

Calif. sealavender, Marsh rosemary

Poaceae

- *Avena fatua*
- *Bromus diandrus*
- *Bromus hordeaceus*
- *Bromus madritensis* ssp. *rubens*
- *Cynodon dactylon*
- *Deschampsia cespitosa* ssp. *holciformis*
- *Distichlis spicata*
- *Hordeum brachyantherum* ssp. *b.*

Wild oat

Rip-gut brome

Soft chess

Foxtail chess, Red brome

Bermuda grass

Tufted hairgrass

Saltgrass

Meadow barley

- *Lolium multiflorum*
- *Piptatherum miliaceum*
- *Polypogon monspeliensis*
- *Vulpia myuros* ssp. *myuros*

Italian rye grass
 Smilo grass
 Rabbit's foot grass
 Rat-tail fescue

Plantaginaceae

- *Plantago lanceolata*
- *Plantago major*

Lanceleaf plantain, English plantain
 Big-leaf plantain

Polygonaceae

- *Rumex crispus*

Curly dock, Yellow dock

Rosaceae

- *Potentilla anserina* ssp. *pacifica*

Pacific silverweed

Plant Species Master List

John Muir National Historic Site, Eugene O'Neill National Historic Site, and Port Chicago National Monument

Species on this list are organized alphabetically by family, with genus and species names listed alphabetically within each family. Native taxa (California native plants) are shown in ***Bold Italic*** while non-native taxa are shown in *Regular Italic*. John Muir N.H.S. property is made up of three areas: Mount Wanda, the John Muir House property, and John Muir's gravesite. Because of the relatively large size of the Mount Wanda portion of John Muir N.H.S., we have divided the area into quadrants (NE, NW, SE, and SW) for the sake of making plant locations more specific. At times, locations for taxa at Eugene O'Neill will also be given similar quadrant labels. Flowering periods reflect those observed during the 2002 season and are given as rough estimates for when one would expect to see the plant in bloom. These dates may vary depending on the year and the location.

Abbreviations

JOMU = John Muir N.H.S.

EUON = Eugene O'Neill N.H.S.

POCH = Port Chicago N.M.

California Exotic Pest Plants Council Codes:

CalEPPC-A1 = Most Invasive Wildland Pest Plants, Widespread

CalEPPC-A2 = Most Invasive Wildland Pest Plants, Regional

CalEPPC-B = Wildland Pest Plants of Lesser Invasiveness

CalEPPC-N = Need More Information

CalEPPC-G = Other Annual Grasses of Concern

CalEPPC-? = Considered But Not Listed

California Department of Food and Agriculture Codes:

NOX-C = Extremely Widespread (Containment Efforts Not Recommended)

NOX-B = Widespread (Potentially Containable)

NOX-Unrated = Weeds Without an Established Rating

Family: Acanthaceae

Scientific Name: *Acanthus mollis*

Common Name: Bear's breach

Location: **JOMU** - House: East side of house near conservatory

Habitat Type: Garden

Growth Form: Perennial Herb

Flowering Period: Spring-Summer

Status: none

Notes: Planted

Family: Aceraceae
Scientific Name: *Acer macrophyllum*
Common Name: Bigleaf maple
Location: **EUON** - NE corner of property and SE slide area

Habitat Type: Forest
Growth Form: Tree
Flowering Period: Spring
Status: none
Notes: none

Family: Agavaceae
Scientific Name: *Agave americana*
Common Name: Century plant
Location: **JOMU** - House: In front of Muir house, north end of oval

Habitat Type: Garden
Growth Form: Succulent
Flowering Period: After 10 years produces 15-40 ft. flower stalk
Status: none
Notes: Planted

Family: Aizoaceae
Scientific Name: *Carpobrotus edulis*
Common Name: Iceplant, Sea fig
Location: **POCH** - Across road and on one pier piling

Habitat Type: Ruderal
Growth Form: Sprawling succulent
Flowering Period: All year
Status: CalEPPC-A1
Notes: none

Family: Amaranthaceae
Scientific Name: *Amaranthus albus*
Common Name: Tumbleweed
Location: **JOMU** - House: Apple orchard, east side near entrance;
EUON - Disked orchard
Habitat Type: Orchard
Growth Form: Herb
Flowering Period: June-Aug
Status: none
Notes: none

Family: Amaranthaceae
Scientific Name: *Amaranthus blitoides*
Common Name: Prostrate pigweed
Location: **JOMU** - House: Orchards; Grave: Orchards;
 EUON - Ruderal, NW; **POCH** - Ruderal
Habitat Type: Orchard/Ruderal
Growth Form: Herb
Flowering Period: May-June
Status: none
Notes: none

Family: Amaranthaceae
Scientific Name: *Amaranthus powellii*
Common Name: Powell's pigweed
Location: **EUON** - Disked orchards

Habitat Type: Orchard
Growth Form: Herb
Flowering Period: July-Sep
Status: none
Notes: none

Family: Amaranthaceae
Scientific Name: *Amaranthus retroflexus*
Common Name: Rough pigweed
Location: **JOMU** - House: Orchards

Habitat Type: Orchard
Growth Form: Herb
Flowering Period: June-Aug
Status: none
Notes: none

Family: Amaryllidaceae
Scientific Name: *Agapanthus orientalis*
Common Name: Lily of the Nile
Location: **JOMU** - House: At northwest corner of Visitor Center; Grave: In grave plot

Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: June-September
Status: none
Notes: none

Family: Amaryllidaceae
Scientific Name: *Amaryllis belladonna*
Common Name: Naked lady, Belladonna lily
Location: **JOMU** - Wanda: On hill above maintenance; House: Around Muir house,
around adobe
Habitat Type: Garden
Growth Form: Herb
Flowering Period: July-Sep
Status: none
Notes: planted

Family: Amaryllidaceae
Scientific Name: *Narcissus sp.*
Common Name: Narcissus, Daffodil
Location: **JOMU** - House: Near adobe; Grave: In grave plot

Habitat Type: Garden
Growth Form: Bulb
Flowering Period: N/A
Status: none
Notes: Planted, maybe historic

Family: Anacardiaceae
Scientific Name: *Rhus ovata*
Common Name: Sugar bush
Location: **JOMU** - House: In native plant garden west of Franklin creek

Habitat Type: All
Growth Form: Shrub/small tree
Flowering Period: March-May
Status: none
Notes: Planted, not historic, native to California but not locally

Family: Anacardiaceae
Scientific Name: *Schinus molle*
Common Name: Peruvian peppertree
Location: **JOMU** - House: Southeast corner of property, along fence

Habitat Type: Garden
Growth Form: Tree
Flowering Period: Summer
Status: none
Notes: Planted, not historic

Family: Anacardiaceae
Scientific Name: *Toxicodendron diversilobum*
Common Name: Poison oak
Location: **JOMU** - Wanda: Ubiquitous; Grave: Riparian; House: Riparian;
 EUON - Ubiquitous
Habitat Type: All
Growth Form: Shrub/Subshrub/Vine
Flowering Period: March-May
Status: none
Notes: none

Family: Apiaceae
Scientific Name: *Anthriscus caucalis*
Common Name: Bur-chervil
Location: **JOMU** - Wanda: Ubiquitous, generally in semi-shaded areas; House: Edge of
 fields, ruderal; **EUON** - Ubiquitous.
Habitat Type: All
Growth Form: Herb
Flowering Period: April-May
Status: none
Notes: none

Family: Apiaceae
Scientific Name: *Apium graveolens*
Common Name: Celery
Location: **POCH** - Brackish marsh near high tide line

Habitat Type: Brackish Marsh
Growth Form: Herb
Flowering Period: May-July
Status: none
Notes: none

Family: Apiaceae
Scientific Name: *Conium maculatum*
Common Name: Poison hemlock
Location: **JOMU** - Wanda: NW, Edge of breached pond; House: Riparian

Habitat Type: Riparian/Ruderal
Growth Form: Herb
Flowering Period: May-July
Status: CalEPPC-B
Notes: none

Family: Apiaceae
Scientific Name: ***Daucus pusillus***
Common Name: Rattlesnake weed
Location: **JOMU** - Wanda: NE, Chaparral and Woodland

Habitat Type: Chaparral/Woodland
Growth Form: Herb
Flowering Period: May-June
Status: none
Notes: none

Family: Apiaceae
Scientific Name: *Foeniculum vulgare*
Common Name: Fennel
Location: **JOMU** - Wanda: NE, along railroad tracks; House: along south fence
POCH - Ruderal
Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: May-Aug
Status: CalEPPC-A1
Notes: none

Family: Apiaceae
Scientific Name: ***Heracleum lanatum***
Common Name: Cow parsnip
Location: **EUON** - East, slide below park offices

Habitat Type: Forest
Growth Form: Herb
Flowering Period: April-June
Status: none
Notes: none

Family: Apiaceae
Scientific Name: ***Lomatium utriculatum***
Common Name: Bladder parsnip
Location: **JOMU** - Wanda: NW-NE

Habitat Type: Woodland
Growth Form: Herb
Flowering Period: March-April
Status: none
Notes: none

Family: Apiaceae
Scientific Name: *Osmorhiza chilensis*
Common Name: Wood cicely
Location: **JOMU** - Wanda: NW, forest edge near base of chaparral

Habitat Type: Forest
Growth Form: Herb
Flowering Period: May-July
Status: none
Notes: none

Family: Apiaceae
Scientific Name: *Perideridia kelloggii*
Common Name: Yampah
Location: **JOMU** - Wanda: All quadrants in patches

Habitat Type: Woodland
Growth Form: Herb
Flowering Period: May-July
Status: none
Notes: none

Family: Apiaceae
Scientific Name: *Sanicula bipinnatifida*
Common Name: Purple sanicle
Location: **JOMU** - Wanda: NE-NW

Habitat Type: Woodland
Growth Form: Herb
Flowering Period: Feb-April
Status: none
Notes: none

Family: Apiaceae
Scientific Name: *Sanicula crassicaulis*
Common Name: Pacific snakeroot
Location: **JOMU** – Wanda: Ubiquitous

Habitat Type: Woodland/Forest
Growth Form: Herb
Flowering Period: Feb-April
Status: none
Notes: none

Family: Apiaceae
Scientific Name: *Scandix pecten-veneris*
Common Name: Shepherd's needle
Location: **JOMU** - Wanda: All quadrants, open areas

Habitat Type: Woodland
Growth Form: Herb
Flowering Period: March-May
Status: none
Notes: none

Family: Apiaceae
Scientific Name: *Torilis arvensis*
Common Name: Field hedge parsley
Location: **JOMU** - Wanda: Ubiquitous; House: Ubiquitous; Grave: Ubiquitous;
EUON - Ubiquitous
Habitat Type: Woodland
Growth Form: Herb
Flowering Period: May-June
Status: none
Notes: none

Family: Apiaceae
Scientific Name: *Torilis nodosa*
Common Name: Knotted hedge parsley
Location: **JOMU** - Wanda: Ubiquitous; House: Ubiquitous;
EUON - East forest
Habitat Type: Woodland
Growth Form: Herb
Flowering Period: April-May
Status: none
Notes: none

Family: Apocynaceae
Scientific Name: *Nerium oleander*
Common Name: Oleander
Location: **JOMU** - Grave: Planted along north border

Habitat Type: Orchard
Growth Form: Shrub
Flowering Period: Feb-Oct
Status: CalEPPC-?
Notes: none

Family: Apocynaceae
Scientific Name: *Trachelospermum jasminoides*
Common Name: Star jasmine
Location: **JOMU** - House: Along fence southwest of visitor center

Habitat Type: Garden
Growth Form: Vine
Flowering Period: June-July
Status: none
Notes: Planted, not historic

Family: Apocynaceae
Scientific Name: *Vinca major*
Common Name: Periwinkle
Location: **JOMU** - Wanda: NE hillside behind Maintenance and just south of main parking area
Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: April-June
Status: CalEPPC-B
Notes: none

Family: Araceae
Scientific Name: *Alocasia macrorrhiza*
Common Name: Elephant's ear
Location: **JOMU** - House: Conservatory

Habitat Type: Garden
Growth Form: Herb
Flowering Period: Spring
Status: none
Notes: Planted

Family: Araceae
Scientific Name: *Monstera deliciosa*
Common Name: Split leaf philodendron
Location: **JOMU** - House: Indoor, conservatory in Muir House

Habitat Type: Garden
Growth Form: Herb
Flowering Period: n/a
Status: none
Notes: Planted, not historic

Family: Araceae

Scientific Name: *Zantedeschia aethiopica*

Common Name: Calla-lily

Location: **JOMU** - Wanda: SW 1 population along drainage/road; House: in garden at Muir house, east of conservatory

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: March-May

Status: CalEPPC-?

Notes: Could be easily extirpated from Wanda and moved to House where it's historic

Family: Araliaceae

Scientific Name: *Hedera canariensis*

Common Name: Algerian ivy

Location: **JOMU** - House: Northeast Muir house

Habitat Type: Garden

Growth Form: vine

Flowering Period: N/A

Status: CalEPPC-N

Notes: none

Family: Araliaceae

Scientific Name: *Hedera helix*

Common Name: English ivy

Location: **JOMU** - Grave: north border; House: along fence

Habitat Type: Orchard/Ruderal

Growth Form: Herb

Flowering Period: N/A

Status: CalEPPC-B

Notes: none

Family: Aristolochiaceae

Scientific Name: *Aristolochia californica*

Common Name: Dutchman's pipe

Location: **JOMU** - Wanda: NW-NE, heavily shaded forest and woodland
EUON - East forest, wooded slopes above slide

Habitat Type: Forest/Woodland

Growth Form: Herb

Flowering Period: Feb-April

Status: none

Notes: none

Family: Asclepiadaceae

Scientific Name: *Asclepias cordifolia*

Common Name: Heart-leafed milkweed

Location: **JOMU** - Wanda: NW and NE; few plants on hill near fence-line in NW, and
few plants on hill above main trail in NE

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: March-May

Status: Ua1; 1 of 2 known locations or fewer in the East Bay

Notes: none

Family: Asclepiadaceae

Scientific Name: *Asclepias fascicularis*

Common Name: Narrow-leafed milkweed

Location: **JOMU** - Wanda: NW-NE, on top along fire road

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: May-June

Status: none

Notes: none

Family: Asteraceae

Scientific Name: *Achillea millefolium*

Common Name: Yarrow

Location: **JOMU** - Wanda: All quadrants
EUON - Wooded areas

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: May-July

Status: none

Notes: none

Family: Asteraceae

Scientific Name: *Achyrachaena mollis*

Common Name: Blow wives

Location: **JOMU** - Wanda: All quadrants, along roads on top of Mt. Wanda

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: April-May

Status: none

Notes: none

Family: Asteraceae
Scientific Name: *Agoseris grandiflora*
Common Name: California dandelion
Location: **JOMU** - Wanda: NE-NW, along roads, trails, deer paths
 EUON - Field edges
Habitat Type: Ruderal/Woodland
Growth Form: Herb
Flowering Period: April-June
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Artemisia californica*
Common Name: California sagebrush
Location: **JOMU** - Wanda: NW-NE

Habitat Type: Chaparral
Growth Form: Shrub
Flowering Period: May-July
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Artemisia douglasiana*
Common Name: California mugwort
Location: **JOMU** - Wanda: All quadrants; Grave: Riparian; House: Riparian
 EUON - East side slide area
Habitat Type: Woodland/Chaparral/Riparian
Growth Form: Herb
Flowering Period: May-July
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Aster chilensis*
Common Name: Common California aster
Location: **JOMU** - Wanda: NE-NW, large patch in open grassland on top of Mt. Wanda,
 scattered plants above train tunnel; **EUON** - Below park office
Habitat Type: Woodland/Forest/Grassland
Growth Form: Herb
Flowering Period: June-Aug
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Aster radulinus*
Common Name: Broad-leaved aster, Woodland aster;
Location: **JOMU** - Wanda: All quadrants in woodland
 EUON - Forest
Habitat Type: Woodland/Forest
Growth Form: Herb
Flowering Period: June-Aug
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Baccharis douglasii*
Common Name: Marsh baccharis
Location: **JOMU** - House: Riparian

Habitat Type: Riparian
Growth Form: Herb
Flowering Period: July-Sep
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Baccharis pilularis*
Common Name: Coyote brush
Location: **JOMU** - Wanda: All quadrants; Grave: Orchard edge; House: Along fence;
 EUON - Scattered in open areas; **POCH** - One bush near pier
Habitat Type: All
Growth Form: Shrub
Flowering Period: Aug-Oct
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Carduus pycnocephalus*
Common Name: Italian thistle
Location: **JOMU** - Wanda: Ubiquitous; Grave: Ubiquitous; House: Ubiquitous;
 EUON – Ubiquitous; **POCH** - Ubiquitous
Habitat Type: All
Growth Form: Herb
Flowering Period: May-July
Status: CalEPPC-B; NOX-C
Notes: none

Family: Asteraceae
Scientific Name: *Centaurea calcitrapa*
Common Name: Purple star thistle
Location: **JOMU** - Wanda: SE, in disturbed field

Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: July-Sep
Status: CalEPPC-B; NOX-B
Notes: none

Family: Asteraceae
Scientific Name: *Centaurea melitensis*
Common Name: Tocalote
Location: **JOMU** - Wanda: SW-NW-NE, small patches

Habitat Type: Woodland/Grassland
Growth Form: Herb
Flowering Period: May-July
Status: CalEPPC-B; NOX-Non-Rated
Notes: none

Family: Asteraceae
Scientific Name: *Centaurea solstitialis*
Common Name: Yellow star thistle
Location: **JOMU** - Wanda: All quadrants;
EUON - NW near barn and NE field
Habitat Type: Grassland
Growth Form: Herb
Flowering Period: June-Aug
Status: CalEPPC-A1; NOX-C
Notes: Widespread, difficult to control/extirpate

Family: Asteraceae
Scientific Name: *Chamomilla suaveolens*
Common Name: Pineapple weed
Location: **JOMU** - Wanda: All quadrants along fire roads; House: Along paths
EUON - Along dirt roads
Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: March-May
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Cichorium intybus*
Common Name: Chicory
Location: **JOMU** - Wanda: Near maintenance

Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: June-July
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Cirsium vulgare*
Common Name: Bull thistle
Location: **JOMU** - Wanda: North along tracks; Grave: Orchard near entrance; House:
Riparian. **EUON** - East side slide area, SW undisked field
Habitat Type: Ruderal/Riparian
Growth Form: Herb
Flowering Period: June-August
Status: CalEPPC-B; NOX-Non-Rated
Notes: none

Family: Asteraceae
Scientific Name: *Cynara cardunculus*
Common Name: Artichoke thistle
Location: **JOMU** - Wanda: SE on grassy slopes;
EUON - Ruderal next to wagon in NW
Habitat Type: Grassland/Ruderal
Growth Form: Herb
Flowering Period: May-July
Status: CalEPPC-A1; NOX-B
Notes: none

Family: Asteraceae
Scientific Name: *Eriophyllum confertiflorum* var. *confertiflorum*
Common Name: Golden yarrow
Location: **JOMU** - Wanda: NE-NW, wild flower trail, also above train tunnel and on
cliff over tracks
Habitat Type: Woodland/Chaparral
Growth Form: Shrub
Flowering Period: April-June
Status: none
Notes: none

Family: Asteraceae
Scientific Name: ***Filago gallica***
Common Name: Fluffweed
Location: **JOMU** - Wanda: NW-NE, small patches;
 EUON - Ruderal near barn
Habitat Type: Woodland/Chaparral/Ruderal
Growth Form: Herb
Flowering Period: May-June
Status: none
Notes: none

Family: Asteraceae
Scientific Name: ***Gnaphalium californicum***
Common Name: California everlasting
Location: **JOMU** - Wanda: NW-NE, small patches in chaparral

Habitat Type: Chaparral
Growth Form: Herb
Flowering Period: May-July
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Gnaphalium luteo-album*
Common Name: Cudweed
Location: **JOMU** - Wanda: SE, ruderal
 EUON - Ruderal near park office
Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: May-July
Status: none
Notes: none

Family: Asteraceae
Scientific Name: ***Grindelia camporum* var. *camporum***
Common Name: Common gum plant
Location: **JOMU** - Wanda: NE, trailhead to train tracks

Habitat Type: Woodland/Ruderal
Growth Form: Herb
Flowering Period: May-July
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Grindelia stricta* var. *angustifolia*
Common Name: Marsh gum plant
Location: **POCH** - Edge of brackish marsh

Habitat Type: Brackish Marsh
Growth Form: Herb
Flowering Period: Aug-Oct
Status: C4 - Plant of Limited Distribution (CNPS Inventory)
Notes: none

Family: Asteraceae
Scientific Name: *Helenium puberulum*
Common Name: Sneezeweed, Rosilla
Location: **JOMU** - Grave: Riparian;
EUON - East side slide area; **POCH** - Brackish marsh
Habitat Type: Riparian/Brackish Marsh
Growth Form: Herb
Flowering Period: June-July
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Helianthella castanea*
Common Name: Mount Diablo sunflower
Location: **JOMU** - Wanda: NE-NW ecotones of woodland and chaparral
Habitat Type: Woodland/Chaparral
Growth Form: Herb
Flowering Period: April-June
Status: FC2 - Federal Endangered Species Candidate
Notes: none

Family: Asteraceae
Scientific Name: *Holocarpha virgata* ssp. *virgata*
Common Name: Sticky tarweed
Location: **JOMU** - Wanda: all quadrants

Habitat Type: Grassland
Growth Form: Herb
Flowering Period: July-Sept
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Hypochaeris glabra*
Common Name: Smooth cat's ear
Location: **JOMU** - Wanda: NW, flower trail near *Allium* patch

Habitat Type: Woodland
Growth Form: Herb
Flowering Period: April-June
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Hypochaeris radicata*
Common Name: Hairy cat's ear
Location: **JOMU** - Wanda: Ubiquitous; House: Ruderal
EUON - Ruderal, ubiquitous. **POCH** - Ruderal
Habitat Type: Ruderal/Grassland/Woodland
Growth Form: Herb
Flowering Period: March-July
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Jaumea carnosa*
Common Name: Fleshy jaumea
Location: **POCH** - Brackish marsh near *Salicornia*

Habitat Type: Brackish Marsh
Growth Form: Herb
Flowering Period: July-Sep
Status: Lake's Watch List
Notes: none

Family: Asteraceae
Scientific Name: *Lactuca serriola*
Common Name: Prickly lettuce
Location: **JOMU** - Wanda: All quadrants, ruderal and grassland; House: Ruderal/edges;
EUON - Ruderal; **POCH** - Ruderal
Habitat Type: Ruderal/Grassland
Growth Form: Herb
Flowering Period: June-Aug
Status: none
Notes: none

Family: Asteraceae

Scientific Name: *Lactuca virosa*

Common Name: Wild lettuce

Location: **JOMU** - Wanda: NE, 1 population above train tunnel on ridge

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: June-Aug

Status: none

Notes: none

Family: Asteraceae

Scientific Name: *Lagophylla ramosissima ssp. ramosissima*

Common Name: Common hareleaf

Location: **JOMU** - Wanda: NW, open grassy area on slope

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: June-July

Status: none

Notes: none

Family: Asteraceae

Scientific Name: *Madia elegans ssp. densiflora*

Common Name: Common tarweed

Location: **JOMU** - Wanda: NE; above and below tracks, near main entrance

Habitat Type: Woodland/Ruderal

Growth Form: Herb

Flowering Period: June-July

Status: none

Notes: none

Family: Asteraceae

Scientific Name: *Madia gracilis*

Common Name: Slender tarweed

Location: **JOMU** - Wanda: All quadrants;
EUON - Grassland, E and NE

Habitat Type: Grassland/Woodland

Growth Form: Herb

Flowering Period: April-June

Status: none

Notes: none

Family: Asteraceae
Scientific Name: *Micropus californicus* var. *californicus*
Common Name: Slender cottonweed
Location: **JOMU** - Wanda: NE-NW-SW, patches in sunny areas

Habitat Type: Woodland/Ruderal
Growth Form: Herb
Flowering Period: March-May
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Picris echioides*
Common Name: Bristly ox-tongue
Location: **JOMU** - Wanda: Ubiquitous; House - Ubiquitous;
EUON - Ubiquitous; **POCH** - Ruderal
Habitat Type: Grassland/Woodland/Ruderal
Growth Form: Herb
Flowering Period: June-Aug
Status: CalEPPC-?
Notes: none

Family: Asteraceae
Scientific Name: *Psilocarphus tenellus* var. *tenellus*
Common Name: Woolly head
Location: **JOMU** - Wanda: NW on road

Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: April-May
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Senecio vulgaris*
Common Name: Groundsel
Location: **JOMU** - Wanda: Ubiquitous; House - Ubiquitous; Grave - Ubiquitous;
EUON - Ubiquitous; **POCH** - Ruderal
Habitat Type: Grassland/Woodland/Ruderal
Growth Form: Herb
Flowering Period: March-May
Status: NOX-Non-Rated
Notes: none

Family: Asteraceae

Scientific Name: *Silybum marianum*

Common Name: Milk thistle

Location: **JOMU** - Wanda: Ubiquitous; House - Ubiquitous; Grave - Ubiquitous;
EUON - Ubiquitous; **POCH** - Ruderal

Habitat Type: Grassland/Woodland/Ruderal

Growth Form: Herb

Flowering Period: June-Aug

Status: CalEPPC-?

Notes: none

Family: Asteraceae

Scientific Name: *Solidago californica*

Common Name: California goldenrod

Location: **JOMU** - Wanda: SW, 1 population above fire road near patch of *Lathyrus latifolius*

Habitat Type: Grassland/Woodland

Growth Form: Herb

Flowering Period: June-Aug

Status: none

Notes: none

Family: Asteraceae

Scientific Name: *Soliva sessilis*

Common Name: South American soliva

Location: **JOMU** - Wanda: All quadrants along roads;
EUON - Ruderal near barn

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: April-June

Status: none

Notes: none

Family: Asteraceae

Scientific Name: *Sonchus asper ssp. asper*

Common Name: Prickly sow thistle

Location: **JOMU** - Wanda: All quadrants along roads and in fields;
EUON - Ubiquitous along roads and in grassland; **POCH** - Ruderal

Habitat Type: Ruderal/Grassland

Growth Form: Herb

Flowering Period: March-May

Status: none

Notes: none

Family: Asteraceae

Scientific Name: *Sonchus oleraceus*

Common Name: Common sow thistle

Location: **JOMU** - Wanda: All quadrants, ruderal areas and grassland

Habitat Type: Ruderal/Grassland

Growth Form: Herb

Flowering Period: March-May

Status: none

Notes: none

Family: Asteraceae

Scientific Name: *Taraxacum officinale*

Common Name: Dandelion

Location: **JOMU** - Wanda: SE, meadow near Alhambra Rd.;

EUON - Open grassland

Habitat Type: Grassland

Growth Form: Herb

Flowering Period: March-July

Status: none

Notes: none

Family: Asteraceae

Scientific Name: *Tragopogon porrifolius*

Common Name: Salsify

Location: **EUON** - 1 plant directly in front of parking area

Habitat Type: Orchard

Growth Form: Herb

Flowering Period: June-July

Status: none

Notes: none

Family: Asteraceae

Scientific Name: *Uropappus lindleyi*

Common Name: Silver puffs

Location: **JOMU** - Wanda: NW, below wildflower trail near *Eriophyllum* and *Allium*

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: April-May

Status: none

Notes: none

Family: Asteraceae
Scientific Name: *Wyethia angustifolia*
Common Name: Narrowleaf mule ears
Location: **JOMU** - Wanda: NW, in shaded woodland

Habitat Type: Woodland
Growth Form: Herb
Flowering Period: April-June
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Wyethia helenoides*
Common Name: Grey mule ears
Location: **JOMU** - Wanda: All quadrants, sunny hillsides

Habitat Type: Grassland/Woodland
Growth Form: Herb
Flowering Period: Feb-May
Status: none
Notes: none

Family: Asteraceae
Scientific Name: *Xanthium spinosum*
Common Name: Spiny cocklebur
Location: **EUON** - North disked field

Habitat Type: Orchard/Ruderal
Growth Form: Herb
Flowering Period: July-Sep
Status: CalEPPC-?
Notes: none

Family: Asteraceae
Scientific Name: *Xanthium strumarium*
Common Name: Cocklebur
Location: **JOMU** - Wanda: NE, along road under trestle

Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: July-Sep
Status: none
Notes: Possibly not native

Family: Berberidaceae
Scientific Name: *Mahonia aquifolium*
Common Name: Oregon grape
Location: **JOMU** - House: Around Adobe

Habitat Type: Garden
Growth Form: Shrub
Flowering Period: March-May
Status: none
Notes: Planted, not historic

Family: Betulaceae
Scientific Name: *Betula nigra*
Common Name: River birch
Location: **JOMU** - House: Southwest corner of site

Habitat Type: Garden
Growth Form: Tree
Flowering Period: N/A
Status: none
Notes: Single tree, gift from local nursery in 1990.

Family: Betulaceae
Scientific Name: *Corylus cornuta var. californica*
Common Name: California hazelnut
Location: **JOMU** - Grave: Riparian

Habitat Type: Riparian
Growth Form: Shrub-Tree
Flowering Period: N/A
Status: none
Notes: none

Family: Bignoniaceae
Scientific Name: *Campsis radicans*
Common Name: Common trumpetvine
Location: **JOMU** - House: One by NE pillar of Ramada behind Adobe

Habitat Type: Garden
Growth Form: Vine
Flowering Period: August-September
Status: none
Notes: Planted, not historic

Family: Bignoniaceae
Scientific Name: *Tecomaria capensis*
Common Name: Cape honeysuckle
Location: **JOMU** - House: Victorian garden

Habitat Type: Garden
Growth Form: Vine
Flowering Period: October-Winter
Status: none
Notes: Planted, not historic

Family: Blechnaceae
Scientific Name: *Woodwardia fimbriata*
Common Name: Giant chain fern
Location: **EUON** - East forest and slide area

Habitat Type: Forest
Growth Form: Fern
Flowering Period: N/A
Status: none
Notes: none

Family: Boraginaceae
Scientific Name: *Amsinckia menziesii* var. *intermedia*
Common Name: Common fiddleneck
Location: **JOMU** - Wanda: Ubiquitous in grassland and woodland, near roads;
EUON - Sunny areas, open grassland
Habitat Type: Grassland/Woodland
Growth Form: Herb
Flowering Period: Feb-April
Status: none
Notes: none

Family: Boraginaceae
Scientific Name: *Cynoglossum grande*
Common Name: Grand hound's tongue
Location: **JOMU** - Wanda: NW-NE-SE, few in shaded woodland/forest;
EUON - East slide area and north forest, few plants
Habitat Type: Forest/Woodland
Growth Form: Herb
Flowering Period: Feb-April
Status: none
Notes: none

Family: Boraginaceae
Scientific Name: *Myosotis latifolia*
Common Name: Forget-me-not
Location: **EUON** - East slide area

Habitat Type: Grassland/Woodland
Growth Form: Herb
Flowering Period: March-May
Status: none
Notes: none

Family: Brassicaceae
Scientific Name: *Brassica nigra*
Common Name: Black mustard
Location: **JOMU** - Wanda: Ubiquitous in grassland; House: Few plants along edges;
POCH - Ubiquitous, ruderal
Habitat Type: Grassland/Ruderal
Growth Form: Herb
Flowering Period: March-May
Status: CalEPPC-B
Notes: none

Family: Brassicaceae
Scientific Name: *Brassica rapa*
Common Name: Field mustard
Location: **JOMU** - Wanda: Ubiquitous in grassland; House: Fields; Grave: Orchards;
EUON - Ubiquitous in grassland and disked areas
Habitat Type: Grassland/Ruderal
Growth Form: Herb
Flowering Period: March-May
Status: none
Notes: none

Family: Brassicaceae
Scientific Name: *Capsella bursa-pastoris*
Common Name: Shepherd's purse
Location: **JOMU** - Wanda: All quadrants ruderal; House: Ruderal, ubiquitous;
POCH - Ubiquitous, ruderal
Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: Feb-April
Status: none
Notes: none

Family: Brassicaceae
Scientific Name: *Cardamine californica*
Common Name: Milk maids
Location: **EUON** - Shaded woodland, east side

Habitat Type: Woodland
Growth Form: Herb
Flowering Period: Feb-April
Status: none
Notes: none

Family: Brassicaceae
Scientific Name: *Cardamine oligosperma*
Common Name: Bitter cress
Location: **JOMU** - Wanda: All quadrants, woodland and ruderal; House: Orchard;
Grave: Ruderal; **EUON** - Ruderal, disked areas
Habitat Type: Woodland/Ruderal/Orchard
Growth Form: Herb
Flowering Period: Feb-April
Status: CalEPPC-B
Notes: none

Family: Brassicaceae
Scientific Name: *Hirschfeldia incana*
Common Name: Hoary mustard
Location: **JOMU** - Wanda: SE, in field near stables; House: Field edges;
EUON - NW, near *Eucalyptus*; **POCH** - Ruderal
Habitat Type: Ruderal/Grassland
Growth Form: Herb
Flowering Period: May-June
Status: CalEPPC-N
Notes: none

Family: Brassicaceae
Scientific Name: *Lepidium latifolium*
Common Name: Perennial pepperweed
Location: **JOMU** - Wanda: SE, small patch in field near stables;
POCH - Ubiquitous, ruderal
Habitat Type: Grassland/Ruderal
Growth Form: Herb
Flowering Period: May-July
Status: CalEPPC-A1; NOX-B
Notes: Could be easily extirpated due to small population size

Family: Brassicaceae
Scientific Name: *Lepidium nitidum* var. *nitidum*
Common Name: Poorman's peppergrass
Location: **JOMU** - Wanda: All quadrants, ruderal;
 EUON - Ruderal and disked areas
Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: Feb-April
Status: none
Notes: none

Family: Brassicaceae
Scientific Name: *Raphanus sativus*
Common Name: Wild radish
Location: **JOMU** - Wanda: All quadrants in ruderal areas and grassland; House: Few
 plants along edges; **EUON** - NE field; **POCH** - Ruderal
Habitat Type: Grassland/Ruderal
Growth Form: Herb
Flowering Period: March-May
Status: none
Notes: none

Family: Brassicaceae
Scientific Name: *Rorippa nasturtium-aquaticum*
Common Name: Watercress
Location: **JOMU** - House: In stream at south end of property; Grave: In creek

Habitat Type: Riparian
Growth Form: Aquatic Herb
Flowering Period: May-July
Status: none
Notes: Also just off property at Eugene O'Neill in pond outflow

Family: Brassicaceae
Scientific Name: *Sinapis arvensis*
Common Name: Charlock
Location: **JOMU** - Wanda: Ubiquitous in grassland;
 EUON - NE, edge of field/orchard
Habitat Type: Grassland/Ruderal
Growth Form: Herb
Flowering Period: March-May
Status: none
Notes: none

Family: Brassicaceae

Scientific Name: *Sisymbrium officinale*

Common Name: Hedge mustard

Location: **JOMU** - Wanda: NE-NW (possibly in south as well) woodland edges;
EUON - NW, at Blemie's grave

Habitat Type: Woodland/Ruderal

Growth Form: Herb

Flowering Period: April-June

Status: none

Notes: none

Family: Brassicaceae

Scientific Name: *Thysanocarpus curvipes*

Common Name: Fringepod

Location: **JOMU** - Wanda: NW-NE, few on open hillsides

Habitat Type: Woodland/Chaparral

Growth Form: Herb

Flowering Period: Feb-April

Status: none

Notes: none

Family: Campanulaceae

Scientific Name: *Campanula medium*

Common Name: Canterbury bells

Location: **JOMU** - House: North side of visitor center

Habitat Type: Garden

Growth Form: Herb

Flowering Period: winter

Status: none

Notes: planted

Family: Caprifoliaceae

Scientific Name: *Lonicera hispidula* var. *vacillans*

Common Name: California honeysuckle

Location: **JOMU** - Wanda: All quadrants, in shaded forest;
EUON - Wooded areas, east side

Habitat Type: Forest

Growth Form: Vine

Flowering Period: May-August

Status: none

Notes: none

Family: Caprifoliaceae
Scientific Name: *Sambucus mexicana*
Common Name: Blue Elderberry
Location: **JOMU** - Wanda: NW, along creeks; House: Riparian, fence lines; Grave: Riparian; **EUON** - East slide area and next to park headquarters
Habitat Type: Forest/Riparian
Growth Form: Shrub
Flowering Period: May-June
Status: none
Notes: none

Family: Caprifoliaceae
Scientific Name: *Symphoricarpos albus var. laevigatus*
Common Name: Snowberry
Location: **JOMU** - Wanda: All quadrants, in shaded forest; Grave: Riparian
EUON - Wooded areas, east side
Habitat Type: Forest
Growth Form: Shrub
Flowering Period: May-August
Status: none
Notes: none

Family: Caryophyllaceae
Scientific Name: *Dianthus deltoides*
Common Name: Maiden pink
Location: **JOMU** - House: Muir house and adobe

Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: June-August
Status: none
Notes: Planted, not historic

Family: Caryophyllaceae
Scientific Name: *Polycarpon tetraphyllum*
Common Name: Four-leaved all-seed
Location: **EUON** - Ruderal, in front of Tao House;
POCH - Ruderal
Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: May-July
Status: none
Notes: none

Family: Caryophyllaceae
Scientific Name: *Silene gallica*
Common Name: Windmill pink, Common catchfly
Location: **JOMU** - NW-NE, sunny hillsides

Habitat Type: Woodland/Chaparral
Growth Form: Herb
Flowering Period: March-May
Status: none
Notes: none

Family: Caryophyllaceae
Scientific Name: *Spergula arvensis*
Common Name: Spurrey
Location: **EUON** - Disked areas

Habitat Type: Ruderal/Orchard
Growth Form: Herb
Flowering Period: Feb-April
Status: none
Notes: none

Family: Caryophyllaceae
Scientific Name: *Spergularia rubra*
Common Name: Sand spurrey
Location: **JOMU** - Wanda: NE, roadside at property edge (probably elsewhere too);
EUON - Ruderal, disked areas, and roads
Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: May-July
Status: none
Notes: none

Family: Caryophyllaceae
Scientific Name: *Stellaria media*
Common Name: Chickweed
Location: **JOMU** - Wanda: Ubiquitous, ruderal; House: In orchards and ruderal; Grave:
Orchard; **EUON** - Orchard, disked areas, ruderal
Habitat Type: Ruderal/Orchard
Growth Form: Herb
Flowering Period: March-May
Status: none
Notes: none

Family: Celastraceae

Scientific Name: *Euonymus japonica*

Common Name: Evergreen euonymus

Location: **JOMU** - House: Bush in front of Muir house, below path

Habitat Type: Garden

Growth Form: Shrub

Flowering Period: spring

Status: none

Notes: planted, not historic

Family: Chenopodiaceae

Scientific Name: *Atriplex triangularis*

Common Name: Spearscale

Location: **POCH** - Ruderal, just above tidal zone

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: August-September

Status: none

Notes: none

Family: Chenopodiaceae

Scientific Name: *Chenopodium multifidum*

Common Name: Cutleafed goosefoot

Location: **JOMU** - Wanda: Ruderal, on roadside near Maintenance, between sidewalk and fence

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: August-September

Status: none

Notes: none

Family: Chenopodiaceae

Scientific Name: *Salicornia virginica*

Common Name: Pickleweed

Location: **POCH** - Brackish marsh

Habitat Type: Brackish marsh

Growth Form: Succulent

Flowering Period: April-June

Status: none

Notes: none

Family: Chenopodiaceae
Scientific Name: *Salsola soda*
Common Name: Russian thistle
Location: **POCH** - Ruderal

Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: July-Oct
Status: CalEPPC-N
Notes: none

Family: Convolvulaceae
Scientific Name: *Convolvulus arvensis*
Common Name: Bindweed
Location: **JOMU** - Wanda: Ubiquitous, grassland; House: Orchard; Grave: Orchard;
EUON - Orchards, disked areas, ruderal
Habitat Type: Grassland/Orchard/Ruderal
Growth Form: Vine
Flowering Period: April-July
Status: CalEPPC-?
Notes: none

Family: Convolvulaceae
Scientific Name: *Convolvulus cneorum*
Common Name: Bush morning glory
Location: **JOMU** - House: Adobe area

Habitat Type: Garden
Growth Form: Herb
Flowering Period: May-September
Status: none
Notes: planted and maintained

Family: Cornaceae
Scientific Name: *Aucuba japonica*
Common Name: Variegated gold dust plant, Japanese aucuba
Location: **JOMU** - House: North side of Visitor Center

Habitat Type: Garden
Growth Form: Herb
Flowering Period: March-April
Status: none
Notes: Planted

Family: Crassulaceae

Scientific Name: *Sedum telphium* var. *autumn joy*

Common Name: Stonecrop

Location: **JOMU** - House: Garden right by conservatory

Habitat Type: Garden

Growth Form: Herb

Flowering Period: March-April

Status: none

Notes: Planted, not historic

Family: Cucurbitaceae

Scientific Name: *Marah fabaceus*

Common Name: California manroot

Location: **JOMU** - Wanda: All quadrants in partial to shaded areas;

EUON - Forest, east side and north side

Habitat Type: Forest

Growth Form: Vine

Flowering Period: N/A

Status: none

Notes: none

Family: Cupressaceae

Scientific Name: *Calocedrus decurrens*

Common Name: Incense cedar

Location: **JOMU** - House: On slope west and north of Muir house; Grave: relict
ornamental tree next to grave

Habitat Type: Garden/Orchard

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Historic tree planted in Muir's time; Native to California, not native to East Bay

Family: Cupressaceae

Scientific Name: *Cupressocyparis leylandii*

Common Name: Leyland cypress

Location: **JOMU** - House: Planted along southeast fence

Habitat Type: Garden

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: planted

Family: Cupressaceae

Scientific Name: *Cupressus funebris*

Common Name: Mourning cypress

Location: **JOMU** - House: East of Muir house along trail

Habitat Type: Garden

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes:

Family: Cupressaceae

Scientific Name: *Cupressus sp.*

Common Name: Cypress

Location: **JOMU** - Grave, relict ornamental tree

Habitat Type: Orchard

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Potentially a native sp.

Family: Cupressaceae

Scientific Name: *Juniperus sp.*

Common Name: Juniper

Location: **JOMU** - Grave, relict ornamental tree

Habitat Type: Orchard

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Potentially a native sp.

Family: Cupressaceae

Scientific Name: *Thuja occidentalis*

Common Name: American arborvitae

Location: **JOMU** - House: Along road between Muir house and carriage house, near tamarisks

Habitat Type: Garden

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Planted, possibly historic

Family: Cyperaceae
Scientific Name: *Carex aquatilis var. dives*
Common Name: Sitka sedge
Location: **JOMU** - House: Riparian, just above bridge

Habitat Type: Riparian
Growth Form: Herb
Flowering Period: March-May
Status: Ua2 - More than 2 known localities in East Bay, but seriously threatened
Notes: none

Family: Cyperaceae
Scientific Name: *Cyperus eragrostis*
Common Name: Tall cyperus
Location: **JOMU** - House: Riparian

Habitat Type: Riparian
Growth Form: Herb
Flowering Period: June-August
Status: none
Notes: none

Family: Cyperaceae
Scientific Name: *Scirpus americanus*
Common Name: Three square
Location: **POCH** - Brackish marsh

Habitat Type: Brackish marsh
Growth Form: Herb
Flowering Period: May-June
Status: none
Notes: none

Family: Cyperaceae
Scientific Name: *Scirpus californicus*
Common Name: California bulrush
Location: **POCH** - Low brackish marsh

Habitat Type: Brackish marsh
Growth Form: Herb
Flowering Period: May-July
Status: none
Notes: none

Family: Cyperaceae
Scientific Name: *Scirpus cernuus*
Common Name: Low clubrush
Location: **POCH** - Brackish marsh

Habitat Type: Brackish Marsh
Growth Form: Herb
Flowering Period: April-June
Status: none
Notes: none

Family: Cyperaceae
Scientific Name: *Scirpus maritimus*
Common Name: Prairie rush
Location: **JOMU** - House: Riparian, near culvert

Habitat Type: Riparian
Growth Form: Herb
Flowering Period: May-June
Status: Lake's Watch List
Notes: none

Family: Dennstaedtiaceae
Scientific Name: *Pteridium aquilinum*
Common Name: Bracken fern
Location: **JOMU** - House: Behind Visitor center

Habitat Type: Garden
Growth Form: Fern
Flowering Period: N/A
Status: none
Notes: Planted, maybe historic

Family: Dryopteridaceae
Scientific Name: *Dryopteris arguta*
Common Name: Wood fern
Location: **JOMU** - Wanda: All quadrants in shaded forest;
EUON - Common in shaded forest
Habitat Type: Forest
Growth Form: Fern
Flowering Period: N/A
Status: none
Notes: none

Family: Dryopteridaceae
Scientific Name: *Polystichum munitum*
Common Name: Western sword fern
Location: **JOMU** - Grave, riparian;
 EUON - East forest, riparian
Habitat Type: Riparian/Garden
Growth Form: Fern
Flowering Period: N/A
Status: none
Notes:

Family: Ebenaceae
Scientific Name: *Diospyros kaki*
Common Name: Persimmon
Location: **JOMU** - Wanda: Remnant planted tree at main parking area

Habitat Type: Woodland
Growth Form: Tree
Flowering Period: March-April
Status: none
Notes: none

Family: Equisetaceae
Scientific Name: *Equisetum telmateia ssp. braunii*
Common Name: Giant horsetail
Location: **EUON** - East side slide/seep area

Habitat Type: Forest/Riparian
Growth Form: Fern
Flowering Period: N/A
Status: Lake's Watch List
Notes: none

Family: Ericaceae
Scientific Name: *Arbutus menziesii*
Common Name: Madrone
Location: **EUON** - East side, above slide, few scattered trees;

Habitat Type: Forest
Growth Form: Tree
Flowering Period: Feb-April
Status: Lake's Watch List
Notes: none

Family: Ericaceae

Scientific Name: *Arbutus unedo*

Common Name: Strawberry tree

Location: **JOMU** - House: At southeast corner of the Muir house, outside potting shed

Habitat Type: Garden

Growth Form: Tree

Flowering Period: Spring

Status: none

Notes: Historic planting

Family: Ericaceae

Scientific Name: *Arctostaphylos manzanita*

Common Name: Manzanita

Location: **JOMU** - House: One in native plant garden west of Franklin creek, and
Entrance to Visitor Center

Habitat Type: Garden

Growth Form: Shrub

Flowering Period: Spring

Status: none

Notes: Planted

Family: Ericaceae

Scientific Name: *Gaultheria shallon*

Common Name: Salal

Location: **JOMU** - House: Garden in Adobe area

Habitat Type: Garden

Growth Form: Shrub

Flowering Period: March-June

Status: none

Notes: Planted, not historic

Family: Euphorbiaceae

Scientific Name: *Chamaesyce maculata*

Common Name: Spotted spurge

Location: **JOMU** - Wanda: NW, along road and in disturbed field;
EUON - Disked orchard; **POCH** - Ruderal

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: June-Aug

Status: none

Notes: none

Family: Euphorbiaceae
Scientific Name: *Eremocarpus setigerus*
Common Name: Doveweed, Turkey mullein
Location: **JOMU** - Wanda: NW, side of road;
 EUON - Ruderal near barn and water main
Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: July-Sept
Status: none
Notes: none

Family: Euphorbiaceae
Scientific Name: *Euphorbia lathyris*
Common Name: Caper spurge
Location: **JOMU** - Wanda: Next to maintenance building

Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: April-June
Status: CalEPPC-N
Notes: Horticultural relict

Family: Euphorbiaceae
Scientific Name: *Euphorbia oblongata*
Common Name: Oblong spurge
Location: **JOMU** - Wanda: NW, SE, several patches in ruderal areas. House: Dense
 patches along Riparian and fence lines. Grave: Edge of Riparian
Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: April-June
Status: NOX-B
Notes: none

Family: Euphorbiaceae
Scientific Name: *Euphorbia peplus*
Common Name: Petty spurge
Location: **JOMU** - House: in garden areas around buildings.
 EUON - Garden areas around Tao House
Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: April-June
Status: none
Notes: none

Family: Euphorbiaceae
Scientific Name: *Euphorbia spathulata*
Common Name: Spatulate leafed spurge
Location: **JOMU** - Wanda: NW-NE in oak woodland;

Habitat Type: Woodland
Growth Form: Herb
Flowering Period: March-April
Status: none
Notes: none

Family: Fabaceae
Scientific Name: *Acacia longifolia*
Common Name: Sydney Golden Wattle, Blackwood acacia
Location: **JOMU** - House: South or east of house along fence

Habitat Type: Garden
Growth Form: Tree/Shrub
Flowering Period: Late Winter-Early spring
Status: none
Notes: Historic planting.

Family: Fabaceae
Scientific Name: *Ceratonia siliqua*
Common Name: Carob, St. John's bread
Location: **JOMU** - House: Behind Muir house near south fence and Northeast of carriage house
Habitat Type: Orchard
Growth Form: Tree
Flowering Period: March-May
Status:
Notes: Planted Historic trees

Family: Fabaceae
Scientific Name: *Genista monspessulana*
Common Name: French broom
Location: **JOMU** - Wanda: NE at edge of property, between tunnel and road;

Habitat Type: Ruderal
Growth Form: Shrub
Flowering Period: March-May
Status: CalEPPC-A1; NOX-C
Notes: Small patch that could be easily removed by one person and a weed-wrench.

Family: Fabaceae

Scientific Name: *Gleditsia triacanthos*

Common Name: Honey locust

Location: **JOMU** - House: North of Muir house along road to carriage house, near tamarisks

Habitat Type: Garden

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Planted, not historic

Family: Fabaceae

Scientific Name: *Lathyrus latifolius*

Common Name: Everlasting pea

Location: **JOMU** - Wanda: SW, above road

Habitat Type: Woodland/Ruderal

Growth Form: Herb

Flowering Period: May-July

Status: none

Notes: none

Family: Fabaceae

Scientific Name: *Lathyrus vestitus* var. *vestitus*

Common Name: Hillside pea

Location: **JOMU** - Wanda: All quadrants, patches in woodland
EUON - Orchards

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: March-April

Status: none

Notes: none

Family: Fabaceae

Scientific Name: *Lotus corniculatus*

Common Name: Bird's foot lotus

Location: **JOMU** - Wanda: NW, side of road
POCH - side of road

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: June-July

Status: none

Notes: none

Family: Fabaceae

Scientific Name: ***Lotus humistratus***

Common Name: Hill lotus

Location: **JOMU** - Wanda: All quadrants, open hillsides

Habitat Type: Ruderal/Grassland

Growth Form: Herb

Flowering Period: March-April

Status: none

Notes: Nearly identical to *L. wrangelianus*. There is no reasonable distinction between these two species - future study will most likely unite these two under one name.

Family: Fabaceae

Scientific Name: ***Lotus purshianus var. purshianus***

Common Name: Spanish lotus

Location: **JOMU** - Wanda: NE, along and below tracks

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: June-July

Status: none

Notes: none

Family: Fabaceae

Scientific Name: ***Lotus scoparius var. scoparius***

Common Name: Deer weed

Location: **JOMU** - Wanda: NW, NE, in chaparral

Habitat Type: Chaparral

Growth Form: sub-shrub

Flowering Period: May-July

Status: none

Notes: none

Family: Fabaceae

Scientific Name: ***Lotus wrangelianus***

Common Name: Common trefoil

Location: **JOMU** - Wanda: SE, along top fire road

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: April-May

Status: none

Notes: Nearly identical to *L. humistratus*

Family: Fabaceae

Scientific Name: ***Lupinus bicolor***

Common Name: Miniature lupine

Location: **JOMU** - Wanda: All quadrants, open areas

Habitat Type: Grassland

Growth Form: Herb

Flowering Period: March-May

Status: none

Notes: Nearly identical to *L. nanus*. There is no reasonable distinction between these two species - future study will most likely unite these two under one name.

Family: Fabaceae

Scientific Name: ***Lupinus formosus var. formosus***

Common Name: Summer lupine

Location: **JOMU** - Wanda: NW-NE; N. of fire road, on top of Mt. Wanda

Habitat Type: Grassland

Growth Form: Herb/Sub-shrub

Flowering Period: May-July

Status: none

Notes: none

Family: Fabaceae

Scientific Name: ***Lupinus microcarpus var. microcarpus***

Common Name: Chick lupine, Valley lupine

Location: **JOMU** - Wanda: SE; along top fire road

Habitat Type: Grassland/Ruderal

Growth Form: Sub-shrub

Flowering Period: May-July

Status: none

Notes: none

Family: Fabaceae

Scientific Name: ***Lupinus nanus***

Common Name: Sky lupine, Douglas's lupine

Location: **JOMU** - Wanda: All quadrants, open areas

EUON - Open grassland and disked areas

Habitat Type: Grassland/Ruderal

Growth Form: Herb

Flowering Period: March-May

Status: none

Notes: Nearly identical to *L. bicolor*

Family: Fabaceae
Scientific Name: *Lupinus succulentus*
Common Name: Arroyo lupine
Location: **JOMU** - Wanda: NW-NE; sunny hillsides

Habitat Type: Grassland/Ruderal
Growth Form: sub-shrub
Flowering Period: May-July
Status: none
Notes: none

Family: Fabaceae
Scientific Name: *Medicago arabica*
Common Name: Spotted bur clover
Location: **JOMU** - Wanda: NW; along roads
 EUON - Disked areas
Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: April-May
Status: none
Notes: none

Family: Fabaceae
Scientific Name: *Medicago polymorpha*
Common Name: California bur clover
Location: **JOMU** - Wanda: Ubiquitous; House: Fields, open areas; Grave: Orchard;
 EUON - Ubiquitous; **POCH** - Ruderal, mown area
Habitat Type: Grassland/Orchard/Ruderal
Growth Form: Herb
Flowering Period: March-May
Status: CalEPPC-?
Notes: none

Family: Fabaceae
Scientific Name: *Melilotus alba*
Common Name: White sweetclover
Location: **POCH** - Ruderal

Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: May-July
Status: none
Notes: none

Family: Fabaceae

Scientific Name: *Melilotus indica*

Common Name: Sourclover

Location: **JOMU** - Wanda: NE corner of property, likely elsewhere also

POCH - Ruderal, in high grass

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: April-June

Status: none

Notes: none

Family: Fabaceae

Scientific Name: *Prosopis glandulosa* var. *torreyana*

Common Name: Honey mesquite

Location: **JOMU** - One tree on path between Muir house and carriage house

Habitat Type: Garden

Growth Form: Tree

Flowering Period: n/a

Status: none

Notes: Planted, historic, supposedly brought by Strenzel along with wife from Texas

Family: Fabaceae

Scientific Name: *Robinia pseudoacacia*

Common Name: Black locust

Location: **JOMU** - Wanda: NE, behind maintenance building; House: Along road east of plum orchard, west of Muir house; Grave: 1 tree near grave

Habitat Type: Ruderal/Orchard

Growth Form: Tree

Flowering Period: March-May

Status: CalEPPC-B

Notes: Planted, does not appear to be spreading on Mt. Wanda.

Family: Fabaceae

Scientific Name: *Rupertia physodes*

Common Name: California tea

Location: **JOMU** - Wanda: NE, shady slope above fire road; hill next to train tunnel

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: N/A

Status: Lake's Watch List

Notes: none

Family: Fabaceae

Scientific Name: *Trifolium bifidum* var. *decipiens*

Common Name: Deceiving clover

Location: **JOMU** - Wanda: NE-SE, along roads and deer trails

Habitat Type: Ruderal/Woodland

Growth Form: Herb

Flowering Period: April-May

Status: none

Notes: none

Family: Fabaceae

Scientific Name: *Trifolium dubium*

Common Name: Little hop clover, Shamrock

Location: **JOMU** - Wanda: Ubiquitous on roads;

EUON - Dirt roads through orchards

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: March-May

Status: none

Notes: none

Family: Fabaceae

Scientific Name: *Trifolium glomeratum*

Common Name: Clustered clover

Location: **EUON** - Dirt road near barn

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: April-June

Status: none

Notes: none

Family: Fabaceae

Scientific Name: *Trifolium gracilentum* var. *gracilentum*

Common Name: Pinpoint clover

Location: **JOMU** - Wanda: NW-NE, Hillside below wildflower trail, and near train tunnel

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: April-June

Status: none

Notes: none

Family: Fabaceae

Scientific Name: *Trifolium hirtum*

Common Name: Rose clover

Location: **JOMU** - Wanda: Ubiquitous, hillsides along roads, grassland;

EUON - Ubiquitous, grassland

Habitat Type: Grassland/Ruderal

Growth Form: Herb

Flowering Period: April-June

Status: none

Notes: none

Family: Fabaceae

Scientific Name: *Trifolium incarnatum*

Common Name: Crimson clover

Location: **JOMU** - Wanda: NE, open field near road, also along train tracks; House:

Orchards, used as a cover-crop

Habitat Type: Ruderal/Orchard

Growth Form: Herb

Flowering Period: Feb-May

Status: none

Notes: Use as a cover-crop seems to inhibit weed growth when not disked

Family: Fabaceae

Scientific Name: *Trifolium microcephalum*

Common Name: Smallhead clover

Location: **JOMU** – Wanda: NE, above train tunnel and nearby

Habitat Type: Woodland/Chaparral

Growth Form: Herb

Flowering Period: March-May

Status: none

Notes: none

Family: Fabaceae

Scientific Name: *Trifolium microdon*

Common Name: Valparaiso clover, Thimble clover

Location: **JOMU** - Wanda: NE, along main road near *Madia gracilis* patch

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: April-June

Status: none

Notes: none

Family: Fabaceae

Scientific Name: *Trifolium oliganthum*

Common Name: Fewflower clover

Location: **JOMU** - Wanda: NE, along main road near *Madia gracilis* patch

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: April-June

Status: none

Notes: none

Family: Fabaceae

Scientific Name: *Trifolium subterraneum*

Common Name: Subterranean clover

Location: **JOMU** - Wanda: NW, along fire road near cement trough

EUON - In drainage next to parking area

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: April-June

Status: none

Notes: none

Family: Fabaceae

Scientific Name: *Trifolium wildenovii*

Common Name: Tomcat clover

Location: **JOMU** - Wanda: NE-NW (possibly in south as well); common woodland clover

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: March-June

Status: none

Notes: none

Family: Fabaceae

Scientific Name: *Vicia americana* var. *americana*

Common Name: American vetch

Location: **JOMU** - Wanda: SE, woodland

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: March-May

Status: none

Notes: none

Family: Fabaceae

Scientific Name: *Vicia benghalensis*

Common Name: Purple vetch

Location: **JOMU** - Wanda: NE-SE (possibly elsewhere too)

EUON - Orchards and grassland

Habitat Type: Grassland/Orchard

Growth Form: Herb

Flowering Period: April-July

Status: none

Notes: none

Family: Fabaceae

Scientific Name: *Vicia sativa ssp. nigra*

Common Name: Spring vetch

Location: **JOMU** - Wanda: Ubiquitous; House: Orchards and edge areas;

EUON - Ubiquitous in grassland and orchards

Habitat Type: Grassland/Woodland/Orchard/Ruderal

Growth Form: Herb

Flowering Period: Feb-May

Status: none

Notes: *Vicia sativa ssp. sativa* may be present as well

Family: Fabaceae

Scientific Name: *Wisteria sinensis*

Common Name: Chinese wisteria

Location: **JOMU** - House: At rear of Muir house, at rear of Adobe

Habitat Type: Garden

Growth Form: Vine

Flowering Period: April-May

Status: none

Notes: planted, not historic

Family: Fagaceae

Scientific Name: *Quercus agrifolia*

Common Name: Coast live oak

Location: **JOMU** - Wanda: Ubiquitous; House: Edges, fence line; Grave: Edge of orchard and near grave plot; **EUON** - East and north forest

Habitat Type: Forest/Woodland

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: none

Family: Fagaceae
Scientific Name: *Quercus douglasii*
Common Name: Blue oak
Location: **JOMU** - Wanda: Ubiquitous in woodland

Habitat Type: Woodland
Growth Form: Tree
Flowering Period: N/A
Status: none
Notes: none

Family: Fagaceae
Scientific Name: *Quercus garryana*
Common Name: Oregon white oak
Location: **JOMU** - House: West of Muir house

Habitat Type: Garden
Growth Form: Tree
Flowering Period: N/A
Status: none
Notes: Planted, historic

Family: Fagaceae
Scientific Name: *Quercus kelloggii*
Common Name: Black oak
Location: **JOMU** - Wanda: Ubiquitous in woodland and forest;
EUON - East and north forest
Habitat Type: Woodland/Forest
Growth Form: Tree
Flowering Period: N/A
Status: none
Notes: none

Family: Fagaceae
Scientific Name: *Quercus lobata*
Common Name: Valley oak
Location: **JOMU** - Wanda: Ubiquitous in woodland/forest; House: Edges and fence line; Grave: Large single tree on west edge of site; **EUON** - East and north forest
Habitat Type: Woodland/Forest
Growth Form: Tree
Flowering Period: N/A
Status: none
Notes: none

Family: Fagaceae

Scientific Name: *Quercus suber*

Common Name: Cork oak

Location: **JOMU** - Wanda: NE, several on north-facing hill above road; House: Near southwest corner of parking lot, just inside fence at corner

Habitat Type: Ruderal/Garden

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Planted, not historic, has potential to spread up into Blue oak woodland.

Family: Garryaceae

Scientific Name: *Garrrya elliptica*

Common Name: Coast Silk Tassel

Location: **JOMU** - House: In native plant garden west of Franklin creek

Habitat Type: Garden

Growth Form: Shrub

Flowering Period: December-February

Status: none

Notes: Planted, not historic

Family: Geraniaceae

Scientific Name: *Erodium botrys*

Common Name: Long-beaked stork's bill

Location: **JOMU** - Wanda: Ubiquitous; House: Ubiquitous;
EUON - Ruderal, disked areas

Habitat Type: All

Growth Form: Herb

Flowering Period: Feb-June

Status: none

Notes: none

Family: Geraniaceae

Scientific Name: *Erodium cicutarium*

Common Name: Red-stemmed stork's bill

Location: **JOMU** - Wanda: Ubiquitous; House: Ubiquitous;
EUON - Ruderal, disked areas

Habitat Type: All

Growth Form: Herb

Flowering Period: Feb-June

Status: none

Notes: none

Family: Geraniaceae

Scientific Name: *Erodium moschatum*

Common Name: Whitestem filaree

Location: **JOMU** - Wanda: Ubiquitous; House: Ubiquitous; Grave: Orchard;

EUON - Ruderal, disked areas

Habitat Type: All

Growth Form: Herb

Flowering Period: Feb-June

Status: none

Notes: none

Family: Geraniaceae

Scientific Name: *Geranium dissectum*

Common Name: Cut-leaved geranium

Location: **JOMU** - Wanda: Ubiquitous; House: Ubiquitous; Grave: Orchard;

EUON - Ruderal, disked areas

Habitat Type: All

Growth Form: Herb

Flowering Period: Feb-June

Status: none

Notes: none

Family: Geraniaceae

Scientific Name: *Geranium molle*

Common Name: Crane's bill geranium

Location: **JOMU** - Wanda: Ubiquitous; House: Ubiquitous;

Habitat Type: All

Growth Form: Herb

Flowering Period: March-May

Status: none

Notes: none

Family: Geraniaceae

Scientific Name: *Pelargonium hortorum*

Common Name: Common geranium

Location: **JOMU** - House: Around Adobe

Habitat Type: Garden

Growth Form: Herb

Flowering Period: Spring-Fall

Status: none

Notes: Planted, Historic

Family: Grossulariaceae

Scientific Name: ***Ribes californicum var. californicum***

Common Name: Hillside gooseberry

Location: **JOMU** - Wanda: NW, in shaded forest near chaparral and near tracks

Habitat Type: Forest

Growth Form: Shrub

Flowering Period: Jan-March

Status: Lake's Watch List

Notes: none

Family: Grossulariaceae

Scientific Name: ***Ribes speciosum***

Common Name: Fuchsia flowered gooseberry

Location: **JOMU** - House: In native plant garden west of Franklin creek

Habitat Type: Garden

Growth Form: Shrub

Flowering Period: Jan-May

Status: Ua1

Notes: Planted, California native, but not locally

Family: Hamamelidaceae

Scientific Name: *Liquidambar styraciflua*

Common Name: Sweet gum

Location: **JOMU** - House: On Street at Visitor center; Grave: Relict ornamental tree

Habitat Type: Orchard/Garden

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Planted, not historic

Family: Hippocastanaceae

Scientific Name: ***Aesculus californica***

Common Name: California buckeye

Location: **JOMU** - Wanda: Ubiquitous in woodland and forest; House: Riparian; Grave: Riparian; **EUON** - East and north forest

Habitat Type: Woodland/Forest/Riparian

Growth Form: Tree

Flowering Period: May-June

Status: none

Notes: none

Family: Hydrophyllaceae

Scientific Name: *Nemophila heterophylla*

Common Name: Canyon nemophila

Location: **JOMU** - Wanda: All quadrants on shaded forest hillsides;

EUON - East side forest

Habitat Type: Forest

Growth Form: Herb

Flowering Period: March-April

Status: none

Notes: none

Family: Hypericaceae

Scientific Name: *Hypericum calycinum*

Common Name: Creeping St. John's wort

Location: **JOMU** - Wanda: NE, on hill above north side open field

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: June-August

Status: none

Notes: Escaped groundcover species

Family: Iridaceae

Scientific Name: *Chasmanthe aethiopica*

Common Name: Chasmanthe

Location: **JOMU** - House: West side of Muir house

Habitat Type: Grassland/Woodland/Forest

Growth Form: Herb

Flowering Period: Feb-April

Status: none

Notes: Planted historic

Family: Iridaceae

Scientific Name: *Gladiolus hortulanus*

Common Name: Gladiolus

Location: **JOMU** - House: In victorian garden behind Muir house

Habitat Type: Garden

Growth Form: Corm

Flowering Period: Spring-Fall

Status: none

Notes: Planted, not historic

Family: Iridaceae

Scientific Name: *Iris douglasiana*

Common Name: Douglas iris

Location: **JOMU** - House: Native plant garden west of Franklin creek, in grass north of Adobe

Habitat Type: Garden

Growth Form: Bulb

Flowering Period: Spring

Status: none

Notes: Planted, not historic

Family: Iridaceae

Scientific Name: *Iris germanica*

Common Name: Bearded iris

Location: **JOMU** - House: Beds east of house, and in Victorian garden behind Muir house

Habitat Type: Garden

Growth Form: Bulb

Flowering Period: Spring

Status: none

Notes: Planted, not historic

Family: Iridaceae

Scientific Name: *Sisyrinchium bellum*

Common Name: Blue-eyed grass

Location: **JOMU** - Wanda: All quadrants, common wildflower;
EUON - East side forest and edge of grassland

Habitat Type: Grassland/Woodland/Forest

Growth Form: Herb

Flowering Period: Feb-April

Status: none

Notes: none

Family: Juglandaceae

Scientific Name: *Carya illinoensis*

Common Name: Pecan

Location: **JOMU** - House: Two very large trees in orchard, East of Adobe

Habitat Type: Orchard

Growth Form: Tree

Flowering Period: April-May

Status: none

Notes: Planted Historic

Family: Juglandaceae

Scientific Name: *Juglans californica ssp. hindsii*

Common Name: California black walnut

Location: **JOMU** - Wanda: NW-NE, in main lot, open area on north side edge, and 1 tree at second bridge on wildflower trail; House: Several in riparian area and many in walnut orchard; Grave: Riparian; **EUON** - Many in old orchards

Habitat Type: Woodland/Riparian/Orchard

Growth Form: Tree

Flowering Period: April-May

Status: FC2 - Federal Endangered Species Candidate

Notes: Many old orchard trees have rejected grafts of *Juglans regia* over time

Family: Juglandaceae

Scientific Name: *Juglans regia*

Common Name: English walnut

Location: **JOMU** - Wanda: NE, on path from train tracks to road (a graft onto California walnut); House: South of pear and apricot orchard; Grave: Riparian
EUON - Single tree on Northwest corner of Tao house, several in orchards

Habitat Type: Forest/Riparian

Growth Form: Tree

Flowering Period: April-May

Status: none

Notes: Many in cultivation at EUON and JOMU

Family: Juncaceae

Scientific Name: *Juncus balticus*

Common Name: Wire rush

Location: **POCH** - Upper edge of brackish marsh

Habitat Type: Brackish Marsh

Growth Form: Herb

Flowering Period: April-May

Status: none

Notes: none

Family: Juncaceae
Scientific Name: ***Juncus patens***
Common Name: Spreading rush
Location: **JOMU** - Wanda: SW-NW, along western creek in clumps; House: Riparian;
EUON - East side slide area
Habitat Type: Riparian/Grassland/Woodland
Growth Form: Herb
Flowering Period: March-May
Status: none
Notes: none

Family: Juncaceae
Scientific Name: ***Juncus xiphioides***
Common Name: Iris-leaf juncus
Location: **JOMU** - Wanda: NW, 1st drainage south of cement trough;
EUON - East side slide area
Habitat Type: Riparian/Grassland/Forest
Growth Form: Herb
Flowering Period: May-June
Status: none
Notes: none

Family: Juncaceae
Scientific Name: ***Luzula comosa***
Common Name: Wood rush
Location: **JOMU** - Wanda: NW, in woodland

Habitat Type: Woodland
Growth Form: Herb
Flowering Period: Feb-April
Status: none
Notes: none

Family: Lamiaceae
Scientific Name: *Lamium amplexicaule*
Common Name: Clasp ing henbit
Location: **JOMU** - Wanda: NE, along main trail near *Madia gracilis* patch; House: In
field behind park offices; **EUON** - In large NW disk ed field near *Eucalyptus*
Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: March-May
Status: none
Notes: none

Family: Lamiaceae

Scientific Name: *Lavendula angustifolia*

Common Name: English lavender

Location: **JOMU** - House: Victorian garden and herb garden behind Muir house

Habitat Type: Garden

Growth Form: shrub

Flowering Period: July-August

Status: none

Notes: Planted, not historic

Family: Lamiaceae

Scientific Name: *Lavendula dentata*

Common Name: French lavender

Location: **JOMU** - House: Victorian garden and herb garden behind Muir house

Habitat Type: Garden

Growth Form: shrub

Flowering Period: Year-round

Status: none

Notes: Planted, not historic

Family: Lamiaceae

Scientific Name: *Melissa officinalis*

Common Name: Lemon balm, Sweet melissa

Location: **JOMU** - Grave: Riparian

Habitat Type: Riparian

Growth Form: Herb

Flowering Period: N/A

Status: none

Notes: none

Family: Lamiaceae

Scientific Name: *Mentha spicata* var. *spicata*

Common Name: Spearmint

Location: **JOMU** - House: Riparian; Grave: Riparian

Habitat Type: Riparian

Growth Form: Herb

Flowering Period: N/A

Status: none

Notes: none

Family: Lamiaceae

Scientific Name: *Monardella villosa ssp. villosa*

Common Name: Coyote mint

Location: **JOMU** - Wanda: NW-NE, hillsides in chaparral and open woodland

Habitat Type: Chaparral/Woodland

Growth Form: Herb

Flowering Period: June-August

Status: none

Notes: none

Family: Lamiaceae

Scientific Name: *Rosmarium officinalis*

Common Name: Rosemary

Location: **JOMU** - House: South of Muir house and along wall behind Visitor Center

Habitat Type: Garden

Growth Form: Herb

Flowering Period: March-May

Status: none

Notes: Planted, not historic

Family: Lamiaceae

Scientific Name: *Salvia clevelandii*

Common Name: Cleveland sage

Location: **JOMU** - House: Native plant garden west of Franklin creek

Habitat Type: Garden

Growth Form: Shrub

Flowering Period: April-June

Status: none

Notes: California native, but not locally

Family: Lamiaceae

Scientific Name: *Salvi greggii*

Common Name: Autumn sage

Location: **JOMU** - House: Southwest edge of property

Habitat Type: Garden

Growth Form: Shrub

Flowering Period: Late Spring-Summer

Status: none

Notes: Planted, not historic

Family: Lamiaceae

Scientific Name: *Salvia leucocephylla*

Common Name: Purple sage

Location: **JOMU** - House: Native plant garden west of Franklin creek

Habitat Type: Garden

Growth Form: Shrub

Flowering Period: April-June

Status: none

Notes: Planted, not historic, California native, but not locally

Family: Lamiaceae

Scientific Name: *Salvia mellifera*

Common Name: Black sage

Location: **JOMU** - Wanda: NW, 1 plant at top of chaparral at extreme edge of property

Habitat Type: Chaparral

Growth Form: Shrub

Flowering Period: April-June

Status: none

Notes: Potentially the furthest north known individual of this species

Family: Lamiaceae

Scientific Name: *Salvia splendens*

Common Name: Scarlet sage

Location: **JOMU** - House: Herb garden

Habitat Type: Garden

Growth Form: Shrub

Flowering Period: Early Summer-Frost

Status: none

Notes: Planted, not historic

Family: Lamiaceae

Scientific Name: *Salvia sonomensis*

Common Name: Sonoma sage

Location: **JOMU** - House: Gardens

Habitat Type: Garden

Growth Form: Shrub

Flowering Period: April-June

Status: none

Notes: Planted, not historic, California native, but not locally

Family: Lamiaceae
Scientific Name: *Satureja douglasii*
Common Name: Yerba buena
Location: **EUON** - East slide area

Habitat Type: Forest
Growth Form: Herb
Flowering Period: May-July
Status: none

Notes: *Clinopodium douglasii* is the most current name for this species, but has not been recognized by the latest edition of the Jepson Manual

Family: Lamiaceae
Scientific Name: *Scutellaria tuberosa*
Common Name: Skullcap
Location: **JOMU** - Wanda: NE, several populations in northern end of chaparral
Habitat Type: Chaparral
Growth Form: Herb
Flowering Period: March-May
Status: none
Notes: none

Family: Lamiaceae
Scientific Name: *Stachys ajugoides ssp. rigida*
Common Name: Hedge nettle
Location: **JOMU** - Wanda: All quadrants, shaded forest and woodland; Grave: Riparian;
EUON - East forest
Habitat Type: Forest/Woodland/Riparian
Growth Form: Herb
Flowering Period: April-June
Status: none
Notes: none

Family: Lauraceae
Scientific Name: *Laurus nobilis*
Common Name: Sweet bay
Location: **JOMU** - House: Single tree due west of Muir house, along path, sapling in cage on west side.
Habitat Type: Forest/Woodland
Growth Form: Tree
Flowering Period: N/A
Status: none
Notes: planted, not historic

Family: Lauraceae

Scientific Name: *Umbellularia californica*

Common Name: California bay

Location: **JOMU** - Wanda: Ubiquitous in forest and woodland; House: In oval directly in front of Muir house; Grave: Riparian; **EUON** - East and north forest

Habitat Type: Forest/Woodland

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Planted, maybe historic

Family: Liliaceae

Scientific Name: *Allium neopolitanum*

Common Name: White garlic

Location: **JOMU** - House: At rear of property, near gate behind Adobe

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: March-April

Status: NOX-B

Notes: none

Family: Liliaceae

Scientific Name: *Allium serra*

Common Name: Serrated onion

Location: **JOMU** - Wanda: NW, below wildflower trail near *Eriophyllum*

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: March-May

Status: none

Notes: none

Family: Liliaceae

Scientific Name: *Brodiaea elegans ssp. elegans*

Common Name: Harvest brodiaea

Location: **JOMU** - Wanda: NE-NW, woodland and chaparral, in sunny spots

Habitat Type: Woodland/Chaparral

Growth Form: Herb

Flowering Period: May-June

Status: none

Notes: none

Family: Liliaceae

Scientific Name: ***Calochortus albus***

Common Name: White globe lily

Location: **EUON** - East side, between slide and creek on ridge, and at south end of east forest at edge of south draw

Habitat Type: Forest

Growth Form: Herb

Flowering Period: May

Status: Lake's Watch List

Notes: none

Family: Liliaceae

Scientific Name: ***Calochortus venustus***

Common Name: Butterfly mariposa lily

Location: **JOMU** - Wanda: NE, single plant near edge of north-facing railroad cut, 1st hogback west of train tunnel

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: May-June

Status: Lake's Watch List

Notes: none

Family: Liliaceae

Scientific Name: ***Chlorogalum pomeridianum var. pomeridianum***

Common Name: Wavy-leaved soap plant

Location: **JOMU** - Wanda: All quadrants, woodland
EUON - East forest

Habitat Type: Woodland/Forest

Growth Form: Herb

Flowering Period: May-July

Status: none

Notes: none

Family: Liliaceae

Scientific Name: ***Dichelostemma capitatum ssp. capitatum***

Common Name: Blue dicks

Location: **JOMU** - Wanda: All quadrants, open areas in oak woodland

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: Feb-April

Status: none

Notes: none

Family: Liliaceae

Scientific Name: *Dichelostemma congestum*

Common Name: Round tooth ookow

Location: **JOMU** - Wanda: SW-SE (most likely in the north as well) in shaded woodland

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: April-May

Status: none

Notes: none

Family: Liliaceae

Scientific Name: *Kniphofia uvaria*

Common Name: Red hot poker, Torch lily

Location: **JOMU** - House: Along main road, north of Muir house, Northeast of Adobe

Habitat Type: Garden

Growth Form: shrub

Flowering Period: N/A

Status: none

Notes: Planted, not historic

Family: Liliaceae

Scientific Name: *Smilacena stellata*

Common Name: False solomon's seal

Location: **EUON** - Next to drainage below park offices, dense colony

Habitat Type: Forest

Growth Form: Herb

Flowering Period: April-May

Status: none

Notes: none

Family: Liliaceae

Scientific Name: *Trillium chloropetalum*

Common Name: Giant trillium

Location: **EUON** - East slide area, near waterfall

Habitat Type: Forest

Growth Form: Herb

Flowering Period: March-April

Status: W - Lake's watch list

Notes: none

Family: Liliaceae

Scientific Name: ***Triteleia laxa***

Common Name: Ithuriel's spear, Wally basket

Location: **JOMU** - Wanda: All quadrants, open areas in oak woodland

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: April-June

Status: none

Notes: none

Family: Liliaceae, (Agavaceae)

Scientific Name: *Yucca elephantipes*

Common Name: Giant spineless yucca

Location: **JOMU** - Wanda: NW, just beyond the maintenance building

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: N/A

Status: none

Notes: Horticultural relict

Family: Liliaceae

Scientific Name: ***Zigadenus fremontii***

Common Name: Star lily, Death camas

Location: **JOMU** - Wanda: NE (potentially elsewhere too), above train tunnel

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: Feb-April

Status: none

Notes: none

Family: Malvaceae

Scientific Name: *Malva nicaeensis*

Common Name: Bull mallow

Location: **JOMU** - Wanda: NW, SE, ruderal areas; House: Orchard, ruderal

EUON - Ruderal, disked areas

Habitat Type: Ruderal/Orchard

Growth Form: Herb

Flowering Period: May-August

Status: none

Notes: none

Family: Malvaceae
Scientific Name: *Malvella leprosa*
Common Name: Alkali mallow
Location: **JOMU** - House: Orchard, ruderal

Habitat Type: Ruderal/Orchard
Growth Form: Herb
Flowering Period: August-October
Status: none
Notes: none

Family: Moraceae
Scientific Name: *Ficus carica*
Common Name: Fig
Location: **JOMU** - House: North side of site between carriage house and Adobe
EUON - East slide area
Habitat Type: Garden/Forest
Growth Form: Tree
Flowering Period: April-May
Status: CalEPPC-A2
Notes: Trees at JOMU House are historic

Family: Moraceae
Scientific Name: *Ficus pumila*
Common Name: Creeping Fig
Location: **JOMU** - House: South fence of parking lot

Habitat Type: Garden
Growth Form: evergreen vine
Flowering Period: n/a
Status: none
Notes: planted, not historic

Family: Moraceae
Scientific Name: *Morus alba*
Common Name: White mulberry
Location: **JOMU** - House: Two trees near northwest corner of site near windmill

Habitat Type: Orchard
Growth Form: Tree
Flowering Period: n/a
Status: none
Notes: planted, not historic, (representation)

Family: Myricaceae

Scientific Name: *Myrica californica*

Common Name: Pacific wax myrtle

Location: **JOMU** - House: along north fence, near largest fig tree

Habitat Type: Orchard

Growth Form: Tree

Flowering Period: Spring

Status: none

Notes: Planted, not historic

Family: Myrtaceae

Scientific Name: *Callistemon citrinus*

Common Name: Lemon bottlebrush

Location: **JOMU** - House: 3 shrubs in Muir house west bed

Habitat Type: Garden

Growth Form: Shrub

Flowering Period: Spring

Status: none

Notes: Planted

Family: Myrtaceae

Scientific Name: *Eucalyptus globulus*

Common Name: Tasmanian blue gum

Location: **JOMU** - Wanda: NE-NW in roadside field;
EUON - NW, between field and pond

Habitat Type: Ruderal

Growth Form: Tree

Flowering Period: N/A

Status: CalEPPC-A1

Notes: none

Family: Myrtaceae

Scientific Name: *Eucalyptus camaldulensis*, *E. cebra*, *E. cladocalyx*, *E. globulus*, *E. polyanthemos*, *E. resinifera*, *E. salicifolia*, *E. saligna*, *E. sideroxylon*

Common Name: Murray red gum, Narrow leafed ironbark, Sugar gum, Silver dollar gum, Red mahogany, Black peppermint, Sidney blue gum, Red iron bark

Location: **JOMU** - House: South of Muir house, (some on Caltrans land)

Habitat Type: Garden

Growth Form: Tree

Flowering Period: Winter

Status: Some species considered weeds, (see *E. globulus*)

Notes: Mix of several species planted along fence south of Muir house, not historic

Family: Myrtaceae

Scientific Name: *Eucalyptus viminalis*

Common Name: Manna gum

Location: **JOMU** - House: Near back of Muir house; Gravesite: single enormous tree

Habitat Type: Ruderal

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Historic tree

Family: Myrtaceae

Scientific Name: *Feijoa sellowiana*

Common Name: Pineapple guava

Location: **JOMU** - House: Two trees on north side of visitor center near post office

Habitat Type: Garden

Growth Form: Tree/shrub

Flowering Period: May-June

Status: none

Notes: Planted, not historic

Family: Myrtaceae

Scientific Name: *Myrtus communis*

Common Name: True myrtle

Location: **JOMU** - House: Small one by potting shed at southeast corner of Muir house,
in shade of strawberry tree

Habitat Type: Garden

Growth Form: Tree/shrub

Flowering Period: n/a

Status: none

Notes: Planted, not historic

Family: Oleaceae

Scientific Name: *Ligustrum ocalifolium*

Common Name: California privet

Location: **JOMU** - House: At path intersection northeast of Adobe

Habitat Type: Garden

Growth Form: Shrub/Small tree

Flowering Period: May-June

Status: none

Notes: Planted, not historic

Family: Oleaceae

Scientific Name: *Olea europea*

Common Name: Olive

Location: **JOMU** - Wanda: SE (and 1 tree in NE), large monotypic forest of Olive in SE
corner of property; House: Along main park road east of carriage house

Habitat Type: Woodland/Orchard

Growth Form: Tree

Flowering Period: April-June

Status: CalEPPC-B

Notes: While the Wanda orchard is historic, it is rapidly spreading into surrounding areas

Family: Oleaceae

Scientific Name: *Osmanthus heterophyllus*

Common Name: False holly

Location: **JOMU** - House: Along west fence

Habitat Type: Garden

Growth Form: shrub/small tree

Flowering Period: Fall-early spring

Status: none

Notes: Planted, maybe historic

Family: Oleaceae

Scientific Name: *Syringa vulgaris*

Common Name: Common lilac

Location: **JOMU** - House: Four plants on west side of oval, in front of Muir house

Habitat Type: Garden

Growth Form: Herb

Flowering Period: late spring

Status: none

Notes: Planted, Historic

Family: Onagraceae

Scientific Name: *Clarkia affinis*

Common Name: Chaparral clarkia

Location: **JOMU** - Wanda: All quadrants;

EUON - Few plants in weedy lot next to barn

Habitat Type: Chaparral/Woodland/Grassland/Ruderal

Growth Form: Herb

Flowering Period: April-June

Status: Lake's Watch List

Notes: The distinction between *Clarkia affinis* and *Clarkia purpurea* ssp. *quadrivulnera* is both unclear and minute. Most keys use the character of fused sepals to differentiate the two species (all four fused or fused in pairs respectively). However, plants on Mt. Wanda were observed having both of these occurring on the same plant. The majority, however, had all four sepals fused together. Another difference between the species is size of the immature capsule (more than 9x longer than wide or less than 8x longer than wide respectively). In this regard, the plants found on Mt. Wanda were more like *C. purpurea* ssp. *quadrivulnera*. However, none of the plants on Mt. Wanda had the typical petal coloration of *C. purpurea* ssp. *quadrivulnera*, such as was observed at Eugene O'Neill N.H.S. Lewis & Lewis (1955), state that in the vicinity of Mt. Diablo that *C. affinis* and *C. purpurea* ssp. *quadrivulnera* appear to hybridize, and that *Godetia quadrivulnera* var. *vacensis* named by Jepson is probably this hybrid. Potentially, we could then refer to this species as *C. x vacensis*, but this issue needs more study.

Family: Onagraceae

Scientific Name: *Clarkia purpurea* ssp. *quadrivulnera*

Common Name: Winecup clarkia

Location: **EUON** - Large population in field on north property border

Habitat Type: Grassland

Growth Form: Herb

Flowering Period: May-June

Status: none

Notes: This population has clear petal markings and sepals fused in pairs

Family: Onagraceae

Scientific Name: *Clarkia unguiculata*

Common Name: Elegant Clarkia

Location: **JOMU** - Wanda: NW- NE, semi-shaded hillsides, and along fire road

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: April-June

Status: none

Notes: none

Family: Onagraceae

Scientific Name: *Epilobium brachycarpum*

Common Name: Annual fireweed

Location: **JOMU** - Wanda: NW- NE, disturbed and open areas;

EUON - Ruderal; **POCH** - Ruderal

Habitat Type: Ruderal/Grassland

Growth Form: Herb

Flowering Period: July-Sept

Status: none

Notes: No status, but pervasive wayside weed of potential concern

Family: Onagraceae

Scientific Name: *Epilobium canum ssp. canum*

Common Name: California fuchsia

Location: **JOMU** - House: Garden in Adobe area

Habitat Type: Garden

Growth Form: Herb/Sub-shrub

Flowering Period: Spring

Status: none

Notes: Planted, not historic

Family: Onagraceae

Scientific Name: *Epilobium ciliatum ssp. ciliatum*

Common Name: Willow herb

Location: **JOMU** - House: Riparian;

EUON - East side slide/seep area

Habitat Type: Forest/Riparian

Growth Form: Herb

Flowering Period: June-Aug

Status: Lake's Watch List

Notes: none

Family: Onagraceae

Scientific Name: *Epilobium minutum*

Common Name: Willow herb

Location: **JOMU** - House: Riparian;

Habitat Type: Riparian

Growth Form: Herb

Flowering Period: June-Aug

Status: Ua2- More than two locations, but seriously threatened

Notes: One or two small plants, just where creek comes out of tunnel

Family: Onagraceae

Scientific Name: *Gaura lindheimeri*

Common Name: Gaura

Location: **JOMU** - House: Garden in front of Adobe, south front

Habitat Type: Garden

Growth Form: Herb

Flowering Period: Spring

Status: none

Notes: Planted, not historic

Family: Oxalidaceae

Scientific Name: *Oxalis corniculata*

Common Name: Wood sorrel

Location: **EUON** - Ruderal near house, on lawns

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: May-Aug

Status: none

Notes: No status, but a weed of concern in many areas

Family: Oxalidaceae

Scientific Name: *Oxalis pes-caprae*

Common Name: Bermuda Buttercup

Location: **JOMU** - Wanda: NW-NE, scattered on semi-shaded hillsides. House: Shaded areas around buildings; Grave: in orchard, around grave

Habitat Type: Woodland/Ruderal/Orchard

Growth Form: Herb

Flowering Period: Feb-April

Status: CalEPPC-N

Notes: none

Family: Palmae

Scientific Name: *Phoenix canariensis*

Common Name: Canary Island date palm

Location: **JOMU** - House: "Bent over palm" north of Muir house

Habitat Type: Garden

Growth Form: Tree

Flowering Period: n/a

Status: none

Notes: Planted, Historic

Family: Palmae

Scientific Name: *Washingtonia filifera*

Common Name: California fan palm

Location: **JOMU** - House: At front porch of Muir house

Habitat Type: Garden

Growth Form: Tree

Flowering Period: n/a

Status: none

Notes: Planted, Historic

Family: Palmae

Scientific Name: *Washingtonia robusta*

Common Name: Mexican fan palm

Location: **JOMU** - House: Two trees in southeast corner of property, one just southwest of Muir house

Habitat Type: Garden

Growth Form: Tree

Flowering Period: n/a

Status: none

Notes: Planted, Historic

Family: Papaveraceae

Scientific Name: *Eschscholtzia californica*

Common Name: California poppy

Location: **JOMU** - Wanda: All quadrants, patches in open areas; House: Edges of fields/fence lines; Grave: Orchard, field edges.

EUON - Scattered. **POCH** - Ruderal, edge areas

Habitat Type: Grassland/Ruderal

Growth Form: Herb

Flowering Period: April-July

Status: CA State Flower

Notes: none

Family: Papaveraceae

Scientific Name: ***Dicentra formosa***

Common Name: Bleeding heart

Location: **JOMU** - Grave: Riparian, on opposite side of creek from grave

Habitat Type: Riparian

Growth Form: Herb

Flowering Period: March-May

Status: Ua1 - 2 known localities or less in East Bay

Notes: (potentially an escaped cultivated plant)

Family: Papaveraceae

Scientific Name: ***Romneya coulteri***

Common Name: Matilija Poppy

Location: **JOMU** - House: On slope behind Muir house

Habitat Type: Garden

Growth Form: Shrub

Flowering Period: May-July

Status: none

Notes: Planted, historic

Family: Philadelphaceae

Scientific Name: ***Philadelphus lewisii***

Common Name: Mock orange

Location: **JOMU** - Wanda: NW, single large shrub in North field, by *Eucalyptus*;

House: At Adobe; Grave: In shade next to grave plot.

Habitat Type: Ruderal/Riparian

Growth Form: Herb

Flowering Period: April-May

Status: none

Notes: Planted. Native to CA, but not East Bay

Family: Pinaceae

Scientific Name: ***Cedrus atlantica***

Common Name: Atlas Cedar

Location: **JOMU** - House: Semicircle west of house; Grave: One tree at entrance to gravesite

Habitat Type: Garden/Orchard

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Planted historic

Family: Pinaceae

Scientific Name: *Cedrus deodara*

Common Name: Deodar Cedar

Location: **JOMU** - House: One in semi-circle around Muir house, two large trees south of Adobe

Habitat Type: Garden/Orchard

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Planted historic

Family: Pinaceae

Scientific Name: *Cedrus libani*

Common Name: Cedar of Lebanon

Location: **JOMU** - House: One in semi-circle of trees west of Muir house.

Habitat Type: Garden/Orchard

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Planted historic

Family: Pinaceae

Scientific Name: *Picea glauca*

Common Name: White spruce

Location: **JOMU** - House: East of Adobe

Habitat Type: Garden

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Planted, not historic

Family: Pinaceae

Scientific Name: *Picea pungens*

Common Name: Colorado spruce

Location: **JOMU** - House: Blocking “historic view” of Muir house from the Adobe

Habitat Type: Garden

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Planted, not historic

Family: Pinaceae

Scientific Name: *Picea sitchensis*

Common Name: Sitka spruce

Location: **JOMU** - House: Single tree with flat top southeast of Adobe

Habitat Type: Garden

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Planted, not historic

Family: Pinaceae

Scientific Name: *Pinus ponderosa*

Common Name: Pacific ponderosa pine

Location: **JOMU** - House: Two trees planted in lawn north of Visitor Center

Habitat Type: Garden

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Planted, not historic

Family: Pinaceae

Scientific Name: *Pinus radiata*

Common Name: Monterey pine

Location: **JOMU** - Wanda: At entrance to Strain Ranch; House: Behind visitor center

Habitat Type: Garden/Forest

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Planted, Historic

Family: Pinaceae

Scientific Name: ***Pinus sabiniana***

Common Name: Grey pine, Foothill pine

Location: **JOMU** - Grave: 1 tree W of grave;

EUON - 1 tree by Blemie's grave

Habitat Type: Grassland

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: none

Family: Pinaceae

Scientific Name: *Pinus sp.*

Common Name: Pine

Location: **JOMU** - Wanda: Some trees planted at main park entrance

Habitat Type: Ruderal

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: none

Family: Pinaceae

Scientific Name: *Pseudotsuga menziesii*

Common Name: Douglas fir

Location: **JOMU** - House: Near northeast corner of Adobe

Habitat Type: Garden

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Planted, not historic

Family: Pittosporaceae

Scientific Name: *Pittosporum tobira*

Common Name: Tobira

Location: **JOMU** - House: Hedges along west fence line

Habitat Type: Garden

Growth Form: Shrub

Flowering Period: N/A

Status: none

Notes: Planted, not historic

Family: Plantaginaceae

Scientific Name: *Plantago lanceolata*

Common Name: Lanceleaf Plantain, English Plantain

Location: **JOMU** - Wanda: Widespread in disturbed, open areas; House: fields;

EUON - Disturbed, open areas; **POCH** - mowed areas

Habitat Type: Ruderal/Grassland

Growth Form: Herb

Flowering Period: March-June

Status: none

Notes: none

Family: Plantaginaceae

Scientific Name: *Plantago major*

Common Name: Big leaf plantain

Location: **JOMU** - House: Riparian; Grave: Riparian;

POCH - edge of high tide area

Habitat Type: Riparian/Brackish marsh

Growth Form: Herb

Flowering Period: April-June

Status: none

Notes: none

Family: Platanaceae

Scientific Name: *Platanus racemosa*

Common Name: California sycamore

Location: **JOMU** - Grave: Riparian

Habitat Type: Riparian

Growth Form: Tree

Flowering Period: N/A

Status: Ua2 - More than 2 localities known, but seriously threatened

Notes: none

Family: Poaceae

Scientific Name: *Agrostis exarata*

Common Name: Spike redtop

Location: **JOMU** - Wanda: SW, in bottom of creek below main confluence; Grave:
Creekbed

Habitat Type: Riparian

Growth Form: Grass

Flowering Period: May-June

Status: none

Notes: none

Family: Poaceae

Scientific Name: *Agrostis stolonifera*

Common Name: Creeping bent

Location: **JOMU** - House: Riparian

Habitat Type: Riparian

Growth Form: Grass

Flowering Period: June-August

Status: none

Notes: Species determination uncertain

Family: Poaceae
Scientific Name: *Aira caryophylla*
Common Name: Hairgrass
Location: **JOMU** - Wanda: NE, open hillsides;
 EUON - open areas
Habitat Type: Grassland/Ruderal
Growth Form: Grass
Flowering Period: April-June
Status: none
Notes: none

Family: Poaceae
Scientific Name: *Arundo donax*
Common Name: Giant Reed, Arundo
Location: **JOMU** - House: Riparian. Grave: Riparian

Habitat Type: Riparian
Growth Form: Grass
Flowering Period: June-Sept
Status: CalEPPC-A1
Notes: none

Family: Poaceae
Scientific Name: *Avena barbata*
Common Name: Slender Wild Oat
Location: **JOMU** - Wanda: all quadrants, widespread; Grave: Orchards, ruderal;
 EUON - open areas
Habitat Type: Grassland/Ruderal/Orchard
Growth Form: Grass
Flowering Period: March-June
Status: CalEPPC-G
Notes: none

Family: Poaceae
Scientific Name: *Avena fatua*
Common Name: Wild Oat
Location: **JOMU** - Wanda: Ubiquitous; House: Ubiquitous; Grave: Ubiquitous;
 EUON - Ubiquitous; **POCH** - Ruderal, edge area
Habitat Type: Grassland/Ruderal/Orchard
Growth Form: Grass
Flowering Period: March-June
Status: CalEPPC-G
Notes: This non-native is one of the most abundant annual grasses in all areas surveyed

Family: Poaceae

Scientific Name: *Briza minor*

Common Name: Quaking grass

Location: **JOMU** - Wanda: NW-NE, few patches in open areas;

EUON - North grassland beyond forest

Habitat Type: Woodland/Chaparral

Growth Form: Grass

Flowering Period: March-May

Status: none

Notes: none

Family: Poaceae

Scientific Name: *Bromus carinatus* var. *carinatus*

Common Name: California brome

Location: **JOMU** - Wanda: All quadrants; House: Edge of fields, fence lines;

EUON - Grassland, Forest, Orchards

Habitat Type: Grassland/Ruderal/Orchard/Forest

Growth Form: Grass

Flowering Period: April-June

Status: none

Notes: none

Family: Poaceae

Scientific Name: *Bromus diandrus*

Common Name: Rip-gut brome

Location: **JOMU** - Wanda: Ubiquitous; House: Edge of fields, fence lines;

EUON - Grassland, forest, orchards; **POCH** - Ruderal, edge area

Habitat Type: Grassland/Ruderal/Orchard/Forest

Growth Form: Grass

Flowering Period: April-June

Status: CalEPPC-G

Notes: This is also one of the most abundant annual grasses in all areas surveyed.

Family: Poaceae

Scientific Name: *Bromus hordeaceus*

Common Name: Soft chess

Location: **JOMU** - Wanda: Ubiquitous; House: Orchards, fields;

EUON - Grassland, ruderal

Habitat Type: Grassland/Ruderal/Orchard

Growth Form: Grass

Flowering Period: March-May

Status: none

Notes: none

Family: Poaceae

Scientific Name: *Bromus madritensis ssp. rubens*

Common Name: Foxtail chess, Red brome

Location: **JOMU** - Wanda: NW, along wildflower trail, woodland;

POCH - Rederal, edge area

Habitat Type: Grassland/Woodland/Ruderal

Growth Form: Grass

Flowering Period: March-May

Status: CalEPPC-A2

Notes: none

Family: Poaceae

Scientific Name: *Cynodon dactylon*

Common Name: Bermuda grass

Location: **JOMU** - Wanda: NE, at entrance gate to fire road; House: Lawn behind adobe; Grave: Orchard, ruderal; **EUON** - NW field next to water-main and barn; **POCH** - Mowed area

Habitat Type: Ruderal/Orchard

Growth Form: Grass

Flowering Period: April-July

Status: NOX-C

Notes: none

Family: Poaceae

Scientific Name: *Cynosorus echinatus*

Common Name: Hedgehog dogtail

Location: **JOMU** - Wanda: NE, over tunnel; Grave: Orchard, ruderal;
EUON - Grassland, Orchards

Habitat Type: Ruderal/Orchard/Woodland

Growth Form: Grass

Flowering Period: May-July

Status: none

Notes: none

Family: Poaceae

Scientific Name: *Dactylis glomerata*

Common Name: Orchard grass

Location: **JOMU** - Wanda: NE, field next to road; **EUON** - East slide area

Habitat Type: Ruderal

Growth Form: Grass

Flowering Period: May-July

Status: none

Notes: none

Family: Poaceae

Scientific Name: *Deschampsia cespitosa ssp. holciformis*

Common Name: Tufted hairgrass.

Location: **POCH** - Ruderal, edge area

Habitat Type: Ruderal

Growth Form: Grass

Flowering Period: April-June

Status: Ub - 3-5 localities known in East Bay

Notes: none

Family: Poaceae

Scientific Name: *Deschampsia elongata*

Common Name: Slender hairgrass

Location: **EUON** - Next to picnic table at park office entrance

Habitat Type: Ruderal

Growth Form: Grass

Flowering Period: April-June

Status: Lake's Watch List

Notes: none

Family: Poaceae

Scientific Name: *Distichlis spicata*

Common Name: Saltgrass

Location: **POCH** - High tidal march

Habitat Type: Brackish marsh

Growth Form: Grass

Flowering Period: June-July

Status: none

Notes: none

Family: Poaceae

Scientific Name: *Elymus glaucus ssp. glaucus*

Common Name: Blue wildrye

Location: **JOMU** - Wanda: All quadrants;

EUON - Grassland, Woodland

Habitat Type: Woodland/Grassland/Forest

Growth Form: Grass

Flowering Period: May-July

Status: none

Notes: none

Family: Poaceae
Scientific Name: *Festuca rubra*
Common Name: Red fescue
Location: **JOMU** - House: North side of Adobe, lawn

Habitat Type: Woodland/Grassland/Forest
Growth Form: Grass
Flowering Period: May-July
Status: none
Notes: planted, not historic

Family: Poaceae
Scientific Name: *Gastridium ventricosum*
Common Name: Nit grass
Location: **JOMU** - Wanda: NW, top of chaparral and along train tracks; Grave:
Orchard, ruderal
Habitat Type: Woodland/Orchard/Ruderal
Growth Form: Grass
Flowering Period: May-July
Status: none
Notes: none

Family: Poaceae
Scientific Name: *Hordeum brachyantherum ssp. brachyantherum*
Common Name: Meadow barley
Location: **POCH** - Ruderal, edge area

Habitat Type: Ruderal
Growth Form: Grass
Flowering Period: April-June
Status: none
Notes: none

Family: Poaceae
Scientific Name: *Hordeum marinum ssp. gussonianum*
Common Name: Mouse barley
Location: **JOMU** - Wanda: NW-NE, open areas, dried pond; House: Fields;
EUON - Grassland
Habitat Type: Grassland/Ruderal
Growth Form: Grass
Flowering Period: April-June
Status: none
Notes: none

Family: Poaceae

Scientific Name: *Hordeum murinum ssp. leporinum*

Common Name: Foxtail barley

Location: **JOMU** - Wanda: Ubiquitous; House: Fields, orchards; Grave: Orchard, ruderal; **EUON** - Grassland, ruderal

Habitat Type: Grassland/Ruderal/Woodland

Growth Form: Grass

Flowering Period: March-May

Status: none

Notes: none

Family: Poaceae

Scientific Name: *Leymus triticoides*

Common Name: Creeping wild rye

Location: **JOMU** - Wanda: All quadrants, sunny to semi-shaded areas; House: Riparian, near upper end of creek at Culvert; Grave: Riparian

Habitat Type: Grassland/Woodland

Growth Form: Grass

Flowering Period: May-July

Status: none

Notes: none

Family: Poaceae

Scientific Name: *Lolium multiflorum*

Common Name: Italian rye grass

Location: **JOMU** - Wanda: Ubiquitous; House: Ruderal, field edges; **EUON** - Ubiquitous

Habitat Type: Grassland/Ruderal/Woodland/Orchard

Growth Form: Grass

Flowering Period: March-June

Status: CalEPPC-G

Notes: This is also one of the most abundant non-native annual grasses of areas surveyed

Family: Poaceae

Scientific Name: *Melica californica*

Common Name: California melic

Location: **JOMU** - Wanda: NW, woodland, North-facing slopes; House: Riparian

Habitat Type: Woodland/Riparian

Growth Form: Grass

Flowering Period: April-June

Status: none

Notes: none

Family: Poaceae
Scientific Name: *Melica torreyana*
Common Name: Torrey melic
Location: **JOMU** - Wanda: All quadrants;
 EUON - Forest above slide
Habitat Type: Woodland/Forest
Growth Form: Grass
Flowering Period: April-June
Status: none
Notes: none

Family: Poaceae
Scientific Name: *Nasella lepida*
Common Name: Foothill needlegrass
Location: **JOMU** - Wanda: NW, top of chaparral

Habitat Type: Woodland/Chaparral
Growth Form: Grass
Flowering Period: March-May
Status: none
Notes: none

Family: Poaceae
Scientific Name: *Nasella pulchra*
Common Name: Purple needlegrass
Location: **JOMU** - Wanda: All quadrants; House: Along SW fence line

Habitat Type: Grassland/Woodland
Growth Form: Grass
Flowering Period: March-May
Status: none
Notes: none

Family: Poaceae
Scientific Name: *Phalaris aquatica*
Common Name: Harding grass
Location: **JOMU** - House: Riparian;
 EUON - Orchard
Habitat Type: Orchard/Riparian
Growth Form: Grass
Flowering Period: May-August
Status: CalEPPC-B
Notes: Field just south of property with very large population of this weedy species

Family: Poaceae
Scientific Name: *Phalaris minor*
Common Name: Littleseed canary grass
Location: **EUON** - Orchard, disked areas

Habitat Type: Orchard
Growth Form: Grass
Flowering Period: July-Sep
Status: none
Notes: none

Family: Poaceae
Scientific Name: *Phalaris paradoxa*
Common Name: Hood canary grass
Location: **JOMU** - Wanda: NW, 1st drainage south of trough, and patches in north top grassland
Habitat Type: Grassland
Growth Form: Grass
Flowering Period: May-July
Status: none
Notes: none

Family: Poaceae
Scientific Name: *Piptatherum miliaceum*
Common Name: Smilo grass
Location: **EUON** - Edge of road below pool;
POCH - Ruderal
Habitat Type: Ruderal
Growth Form: Grass
Flowering Period: April-July
Status: CalEPPC-N
Notes: none

Family: Poaceae
Scientific Name: *Poa annua*
Common Name: Annual bluegrass
Location: **JOMU** - Wanda: All quadrants, ruderal; House: Ruderal, orchard; Grave: Orchard, ruderal; **EUON** - Ruderal
Habitat Type: Ruderal
Growth Form: Grass
Flowering Period: March-May
Status: none
Notes: none

Family: Poaceae

Scientific Name: *Poa secunda ssp. secunda*

Common Name: One-sided bluegrass

Location: **JOMU** - Wanda: NW-NE-SW, patches in shaded woodland and forest

Habitat Type: Woodland/Forest

Growth Form: Grass

Flowering Period: April-June

Status: none

Notes: none

Family: Poaceae

Scientific Name: *Polypogon monspeliensis*

Common Name: Rabbit's foot grass

Location: **JOMU** - Wanda: SW, growing in sunny drainage, and NW in dried pond;

House: Riparian; Grave: Orchard, riparian, ruderal; **EUON** - East slide area;

POCH - High brackish marsh

Habitat Type: Riparian/Orchard/Ruderal/Brackish Marsh

Growth Form: Grass

Flowering Period: May-July

Status: none

Notes: none

Family: Poaceae

Scientific Name: *Triticum aestivum*

Common Name: Wheat

Location: **JOMU** - Wanda: Along train tracks; House: occasionally planted as small

demo crop south of Adobe; Grave: Southern end of orchard;

EUON - NW, ruderal

Habitat Type: Ruderal/Orchard

Growth Form: Grass

Flowering Period: April-August

Status: none

Notes: planted, few feral plants

Family: Poaceae

Scientific Name: *Vulpia bromoides*

Common Name: Brome fescue

Location: **JOMU** - Wanda: NE, in open areas;

EUON - Grassland, ruderal

Habitat Type: Grassland/Woodland/Ruderal

Growth Form: Grass

Flowering Period: March-May

Status: none

Notes: none

Family: Poaceae

Scientific Name: *Vulpia microstachys* var. *pauciflora*

Common Name: Few-flowered fescue

Location: **JOMU** - Wanda: NE, in one dry open slope over tracks

Habitat Type: Woodland/Chaparral

Growth Form: Grass

Flowering Period: April-June

Status: none

Notes: none

Family: Poaceae

Scientific Name: *Vulpia myuros* var. *hirsuta*

Common Name: Fox-tail fescue

Location: **JOMU** - House: Orchard near Adobe

Habitat Type: Orchard

Growth Form: Grass

Flowering Period: March-May

Status: none

Notes: none

Family: Poaceae

Scientific Name: *Vulpia myuros* var. *myuros*

Common Name: Rat-tail fescue

Location: **JOMU** - Wanda: NE, along road;

EUON - Grassland, ruderal

Habitat Type: Grassland/Ruderal

Growth Form: Grass

Flowering Period: March-May

Status: none

Notes: none

Family: Polemoniaceae

Scientific Name: *Linanthus bicolor*

Common Name: Bicolored linanthus

Location: **JOMU** - Wanda: NE-NW, north-facing oak woodland hillsides

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: March-April

Status: none

Notes: none

Family: Polemoniaceae

Scientific Name: ***Phlox gracilis***

Common Name: Slender phlox

Location: **JOMU** - Wanda: NE-NW, shaded north-facing oak woodland hillsides

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: March-April

Status: none

Notes: none

Family: Polygonaceae

Scientific Name: ***Eriogonum nudum var. auriculatum***

Common Name: Nude buckwheat

Location: **JOMU** - Wanda: All quadrants, scattered in dry, open hillsides

Habitat Type: Grassland/Chaparral/Ruderal

Growth Form: Herb

Flowering Period: June-August

Status: none

Notes: none

Family: Polygonaceae

Scientific Name: *Polygonum arenastrum*

Common Name: Common knotweed

Location: **JOMU** - Wanda: NE, in field near *Eucalyptus*; House: Orchards, vineyard;
EUON - Ruderal, Blemie's grave

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: May-July

Status: none

Notes: none

Family: Polygonaceae

Scientific Name: *Rumex acetosella*

Common Name: Sheep sorrel

Location: **JOMU** - Wanda: NW-NE, field margins and ruderal areas (probably in south as well)

Habitat Type: Ruderal/Grassland

Growth Form: Herb

Flowering Period: Feb-July

Status: none

Notes: none

Family: Polygonaceae

Scientific Name: *Rumex crispus*

Common Name: Curly dock, Yellow dock

Location: **JOMU** - Wanda: All quadrants, common in fields and roads; House: Ruderal, field edges, riparian; Grave: Orchard, ruderal; **EUON** - Ruderal, grassland; **POCH** - Ruderal

Habitat Type: Ruderal/Grassland/Riparian/Orchard

Growth Form: Herb

Flowering Period: April-June

Status: none

Notes: none

Family: Polygonaceae

Scientific Name: *Rumex pulcher*

Common Name: Fiddle dock

Location: **JOMU** - Wanda: NW-NE, woodland margins; House: Riparian; Grave: Riparian; **EUON** - Above pond, towards Tao House, ruderal

Habitat Type: Woodland/Riparian/Ruderal

Growth Form: Herb

Flowering Period: May-July

Status: none

Notes: none

Family: Polypodiaceae

Scientific Name: *Polypodium calirhiza*

Common Name: California polypody

Location: **JOMU** - Wanda: NW, dark woods; **EUON** - East forest and slide area

Habitat Type: Forest

Growth Form: Fern

Flowering Period: N/A

Status: none

Notes: none

Family: Portulacaceae

Scientific Name: *Calandrinia ciliata*

Common Name: Red maids

Location: **JOMU** - Wanda: NW-NE-SW, widespread along roads, at times in grassland; **EUON** - Ruderal, disked areas

Habitat Type: Ruderal/Grassland

Growth Form: Herb

Flowering Period: March-April

Status: none

Notes: none

Family: Portulacaceae

Scientific Name: *Claytonia perfoliata ssp. perfoliata*

Common Name: Miner's lettuce

Location: **JOMU** - Wanda: Ubiquitous, mostly in woodland; House: Ubiquitous; Grave: Orchard, shaded areas; **EUON** - Ruderal, disked areas

Habitat Type: Woodland/Forest/Grassland

Growth Form: Herb

Flowering Period: January-April

Status: none

Notes: none

Family: Portulacaceae

Scientific Name: *Portulaca oleracea*

Common Name: Common purslane

Location: **JOMU** - House: Orchards

Habitat Type: Orchard

Growth Form: Herb

Flowering Period: June-July

Status: none

Notes: none

Family: Primulaceae

Scientific Name: *Anagallis arvensis*

Common Name: Scarlet pimpernel

Location: **JOMU** - Wanda: All quadrants, ruderal and open areas; House: Ruderal, orchards; **EUON** - Ruderal, disked areas

Habitat Type: Ruderal/Orchard

Growth Form: Herb

Flowering Period: March-June

Status: none

Notes: none

Family: Primulaceae

Scientific Name: *Dodecatheon hendersonii*

Common Name: Shooting star

Location: **JOMU** - Wanda: NW-NE, generally oak woodland

Habitat Type: Woodland/Forest

Growth Form: Herb

Flowering Period: Feb-April

Status: none

Notes: none

Family: Pteridaceae

Scientific Name: *Adiantum jordanii*

Common Name: Maidenhair fern

Location: **JOMU** - Wanda: All quadrants, heavily shaded moist areas;

EUON - East forest

Habitat Type: Forest

Growth Form: Fern

Flowering Period: N/A

Status: none

Notes: none

Family: Pteridaceae

Scientific Name: *Pellaea andromedaefolia*

Common Name: Coffee fern

Location: **JOMU** - Wanda: NW-NE, chaparral

Habitat Type: Chaparral

Growth Form: Fern

Flowering Period: N/A

Status: none

Notes: none

Family: Pteridaceae

Scientific Name: *Pentagramma triangularis ssp. triangularis*

Common Name: Goldback fern

Location: **JOMU** - Wanda: All quadrants, steep areas, usually shaded by other plants

EUON - East forest

Habitat Type: Chaparral/Forest

Growth Form: Fern

Flowering Period: N/A

Status: none

Notes: none

Family: Punicaceae

Scientific Name: *Punica granatum*

Common Name: Pomegranite

Location: **JOMU** - Wanda: NE, between parking area and main trail; House: Along walkways south and north of house; Grave: Orchard, one large shrub

Habitat Type: Ruderal/Orchard

Growth Form: Shrub

Flowering Period: N/A

Status: none

Notes: Planted, not historic

Family: Ranunculaceae
Scientific Name: *Clematis armandii*
Common Name: Evergreen clematis
Location: **JOMU** - House: Along southeast fence

Habitat Type: Garden
Growth Form: Vine
Flowering Period: March-April
Status: none
Notes: Planted

Family: Ranunculaceae
Scientific Name: ***Delphinium hesperium ssp. hesperium***
Common Name: Foothill Larkspur
Location: **JOMU** - Wanda: NW, on SW-facing slope near fence, and NE, below
wildflower trail, between 3 & 4 markers
Habitat Type: Woodland
Growth Form: Herb
Flowering Period: March-May
Status: none
Notes: Flowered early on sunny NW slope, late on NE

Family: Ranunculaceae
Scientific Name: ***Ranunculus californicus***
Common Name: California buttercup
Location: **JOMU** - Wanda: Ubiquitous;
EUON - Edge of grassland and forest on East and North
Habitat Type: Woodland/Grassland/Forest
Growth Form: Herb
Flowering Period: March-May
Status: none
Notes: Some will flower earlier and later than range above

Family: Ranunculaceae
Scientific Name: *Ranunculus muricatus*
Common Name: Spiny buttercup
Location: **JOMU** - Wanda: SW-SE-NE, on roads, generally in damp, shaded areas

Habitat Type: Ruderal
Growth Form: Herb
Flowering Period: April-June
Status: none
Notes: none

Family: Rhamnaceae

Scientific Name: *Rhamnus californica ssp. californica*

Common Name: California coffeeberry

Location: **JOMU** - Wanda: NW-NE-SE, shaded forest, and few on top of train tunnel

Habitat Type: Forest/Woodland

Growth Form: Shrub

Flowering Period: Mar-May

Status: none

Notes: none

Family: Rosaceae

Scientific Name: *Adenostoma fasciculatum*

Common Name: Chamise

Location: **JOMU** - Wanda: NW-NE, chaparral

Habitat Type: Chaparral

Growth Form: Shrub

Flowering Period: June-Aug

Status: none

Notes: none

Family: Rosaceae

Scientific Name: *Aphanes occidentalis*

Common Name: Lady's mantle

Location: **JOMU** - Wanda: All quadrants, roads and woodland near roads

Habitat Type: Ruderal/Woodland

Growth Form: Herb

Flowering Period: Feb-April

Status: none

Notes: none

Family: Rosaceae

Scientific Name: *Chaenomeles lagenaria*

Common Name: Japanese quince

Location: **JOMU** - House: In front of muir house just past large bay tree inside oval

Habitat Type: Orchard/Garden

Growth Form: Tree

Flowering Period: March-May

Status: none

Notes: Planted historic trees

Family: Rosaceae
Scientific Name: *Cotoneaster dammeri*
Common Name: Bearberry cotoneaster
Location: **JOMU** - House: Adobe garden area

Habitat Type: Garden/Ruderal
Growth Form: Shrub
Flowering Period: April-June
Status: CalEPPC-N
Notes: none

Family: Rosaceae
Scientific Name: *Cotoneaster franchetii*
Common Name: Franchet cotoneaster
Location: **JOMU** - Wanda: NE, along NE road; House: Fence lines;
EUON - Forest just above slide area
Habitat Type: Ruderal
Growth Form: Shrub
Flowering Period: April-June
Status: CalEPPC-N
Notes: none

Family: Rosaceae
Scientific Name: *Cotoneaster lacteus*
Common Name: Big-leafed cotoneaster
Location: **JOMU** - House: South fence line

Habitat Type: Ruderal
Growth Form: Shrub
Flowering Period: June-Aug
Status: CalEPPC-A2
Notes: none

Family: Rosaceae
Scientific Name: *Crataegus laevigata*
Common Name: English Hawthorn
Location: **JOMU** - House: NE corner of Park, right by gate; Grave: Large tree next to grave plot

Habitat Type: Garden/Orchard
Growth Form: Tree
Flowering Period: N/A
Status: none
Notes: Planted, May be removed in future

Family: Rosaceae

Scientific Name: *Cydonia oblonga*

Common Name: Quince

Location: **JOMU** - Wanda: SE, on road just entering park, forest below olive orchard;
House: West of Carriage house, and one in front of Adobe

Habitat Type: Garden/Orchard

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Planted historic

Family: Rosaceae

Scientific Name: *Eriobotrya japonica*

Common Name: Loquat

Location: **JOMU** - House: Southeast corner of house, near potting shed

Habitat Type: Garden

Growth Form: Tree

Flowering Period: Winter

Status: none

Notes: Planted, not historic

Family: Rosaceae

Scientific Name: *Heteromeles arbutifolia*

Common Name: Toyon

Location: **JOMU** - Wanda: All quadrants, in woodland and chaparral; House: Fence lines, edges of fields; **EUON** - East and north forest

Habitat Type: Chaparral

Growth Form: Shrub

Flowering Period: June-Aug

Status: none

Notes: none

Family: Rosaceae

Scientific Name: *Holodiscus discolor*

Common Name: Oceanspray

Location: **JOMU** - Wanda: NW in draw between chaparral and forest

Habitat Type: Chaparral/Forest

Growth Form: Shrub

Flowering Period: Feb-April

Status: none

Notes: none

Family: Rosaceae

Scientific Name: *Malus sylvestris*

Common Name: Apple

Location: **JOMU** - Wanda: one tree in SW on hill in grassland; House: Apple orchard from turnstile to south east corner of site, one tree near southwest corner of Muir house;

Habitat Type: Forest/Grassland

Growth Form: Tree

Flowering Period: April-May

Status: none

Notes: none

Family: Rosaceae

Scientific Name: *Oemleria cerasiformis*

Common Name: Oso berry

Location: **JOMU** - Wanda: NW-NE, shaded forest, one bush in SE forest

Habitat Type: Forest

Growth Form: Shrub

Flowering Period: Feb-May

Status: none

Notes: none

Family: Rosaceae

Scientific Name: *Potentilla anserina ssp. pacifica*

Common Name: Pacific silverweed

Location: **POCH** - Marsh, high-tide zone

Habitat Type: Brackish Marsh

Growth Form: Herb

Flowering Period: April-May

Status: Ua2 - More than 2 localities known in the East Bay, but seriously threatened

Notes: none

Family: Rosaceae

Scientific Name: *Potentilla glandulosa ssp. glandulosa*

Common Name: Sticky cinquefoil

Location: **JOMU** - Wanda: SW, Riparian, densely shaded forest;
EUON - East side forest, Riparian

Habitat Type: Riparian

Growth Form: Herb

Flowering Period: May-June

Status: none

Notes: none

Family: Rosaceae

Scientific Name: *Prunus armeniaca*

Common Name: Apricot

Location: **JOMU** - Wanda: SE, relict orchard on SE facing slope, with scattered remaining trees; House: Orchard; Grave: Orchard; **EUON** - Orchard

Habitat Type: Orchard/Grassland

Growth Form: Tree

Flowering Period: Feb-April

Status: none

Notes: all apricot trees are planted, some historic, some representation

Family: Rosaceae

Scientific Name: *Prunus avium*

Common Name: Sweet cherry

Location: **JOMU** - House: Single tree in orchard, behind visitor center near north fence west of peaches

Habitat Type: Orchard

Growth Form: Tree

Flowering Period: February-April

Status: none

Notes: planted, not historic

Family: Rosaceae

Scientific Name: *Prunus cerasifera*

Common Name: Cherry plum

Location: **JOMU** - Wanda: All quadrants, scattered in shaded and open areas. House: near garden areas. Grave: Orchard, ruderal; **EUON** - East side forest, slide area

Habitat Type: Ruderal/Forest/Woodland

Growth Form: Tree

Flowering Period: Feb-April

Status: CalEPPC-N

Notes: several relict individuals as well as seedlings and saplings.

Family: Rosaceae

Scientific Name: *Prunus domestica*

Common Name: Plum

Location: **JOMU** - House: Plum orchard west of Muir house from Giant Sequoia to south fence; **EUON** - Orchard north of Tao house

Habitat Type: Orchard

Growth Form: Tree

Flowering Period: Feb-April

Status: none

Notes: none

Family: Rosaceae
Scientific Name: *Prunus dulcis*
Common Name: Almond
Location: **JOMU** - Wanda: NE, at entrance of main trail; House: North of carriage house
Habitat Type: Orchard/Ruderal
Growth Form: Tree
Flowering Period: Feb-April
Status: none
Notes: planted and feral, representation of historic

Family: Rosaceae
Scientific Name: *Prunus lyonii*
Common Name: Catalina cherry
Location: **JOMU** - House: One existing tree in native plants garden
Habitat Type: Garden
Growth Form: Tree
Flowering Period: April-May
Status: none
Notes: Planted, not historic

Family: Rosaceae
Scientific Name: *Prunus persica*
Common Name: Peach
Location: **JOMU** - House: Orchard on north side of site; Grave: Orchard
Habitat Type: Orchard
Growth Form: Tree
Flowering Period: April-May
Status: none
Notes: part of historic orchard

Scientific Name: *Prunus salicina*
Common Name: Japanese plum
Location: **JOMU** - House: Plum orchard west of Muir house from Giant Sequoia to south fence
Habitat Type: Orchard
Growth Form: Tree
Flowering Period: April-May
Status: none
Notes: planted, not historic

Family: Rosaceae

Scientific Name: *Pyracantha angustifolia*

Common Name: Firethorn

Location: **JOMU** - Wanda: NE, on trail, just west of train trestle

Habitat Type: Ruderal

Growth Form: Shrub

Flowering Period: April-May

Status: CalEPPC-N

Notes: single plant, does not appear to be spreading

Family: Rosaceae

Scientific Name: *Pyracantha coccinea*

Common Name: Firethorn

Location: **JOMU** - House: Between Adobe and Ramada

Habitat Type: Garden

Growth Form: Shrub

Flowering Period: April-May

Status:

Notes: single plant, does not appear to be spreading, planted, not historic

Family: Rosaceae

Scientific Name: *Pyrus communis*

Common Name: Common pear

Location: **JOMU** – Wanda: Single old tree next to barn on Strain Ranch; House:
Orchard west of Franklin creek, west of carriage house; Grave: Orchard

Habitat Type: Orchard

Growth Form: Tree

Flowering Period: March-May

Status: none

Notes: Historic orchard.

Family: Rosaceae

Scientific Name: *Rhaphiolepis indica*

Common Name: Indian hawthorn

Location: **JOMU** - House: Retained in non-historic area

Habitat Type: Garden

Growth Form: Shrub

Flowering Period: Spring and Fall

Status: none

Notes: planted, not historic

Family: Rosaceae
Scientific Name: *Rosa banksiae*
Common Name: Lady banks rose
Location: **JOMU** - House: Adobe garden

Habitat Type: Garden
Growth Form: Shrub
Flowering Period: Spring
Status: none
Notes: planted, historic

Family: Rosaceae
Scientific Name: *Rosa californica*
Common Name: California rose
Location: **JOMU** - House: Riparian, next to bridge; Grave: Riparian

Habitat Type: Riparian
Growth Form: shrub
Flowering Period: April-June
Status: none
Notes: none

Family: Rosaceae
Scientific Name: *Rosa gymnocarpa*
Common Name: Dwarf rose, Wood rose
Location: **JOMU** - Wanda: SE-NW, on shaded forest slopes

Habitat Type: Forest
Growth Form: Shrub
Flowering Period: March-April
Status: none
Notes: none

Family: Rosaceae
Scientific Name: *Rosa harisonii*
Common Name: Harison's yellow rose
Location: **JOMU** - House: Near southwest corner of Muir house lawn, outside oval

Habitat Type: Garden
Growth Form: Shrub
Flowering Period: Spring
Status: none
Notes: planted, maybe historic

Family: Rosaceae

Scientific Name: *Rosa laevigata*

Common Name: Cherokee rose

Location: **JOMU** - House: Next to back fence near southwest corner of Adobe

Habitat Type: Garden

Growth Form: Shrub

Flowering Period: Spring

Status: none

Notes: planted, historic, Muir favorite

Family: Rosaceae

Scientific Name: *Rosa* sp.

Common Name: Rose

Location: **JOMU** - House: Rose garden in oval north of Muir house

Habitat Type: Garden

Growth Form: Shrub

Flowering Period: Spring

Status: none

Notes: planted, not historic

Family: Rosaceae

Scientific Name: *Rubus discolor*

Common Name: Himalaya blackberry

Location: **JOMU** - Wanda: NE, single clump at edge of field near maintenance; House: Fencelines, riparian; Grave: Riparian, orchard edge; **EUON** - East slide area

Habitat Type: Ruderal/Riparian/Forest

Growth Form: Shrub

Flowering Period: March-July

Status: CalEPPC-A1

Notes: none

Family: Rosaceae

Scientific Name: ***Rubus ursinus***

Common Name: California blackberry

Location: **JOMU** - Wanda: All quadrants, along creeks and ruderal areas; Grave: Riparian. **EUON** - East side slide area

Habitat Type: Riparian/Forest

Growth Form: Shrub

Flowering Period: March-May

Status: none

Notes: none

Family: Rosaceae
Scientific Name: *Spirea prunifolia*
Common Name: Bridal wreath spirea
Location: **JOMU** - House: Garden in front of Adobe

Habitat Type: Garden
Growth Form: Shrub
Flowering Period: March-May
Status: none
Notes: Planted, historic, absent at time of survey, but will be replanted

Family: Rubiaceae
Scientific Name: *Galium aparine*
Common Name: Goosegrass
Location: **JOMU** - Wanda: Ubiquitous; House: ubiquitous; Grave: Ubiquitous;
EUON - Ubiquitous
Habitat Type: All Habitats
Growth Form: Herb
Flowering Period: March-May
Status: none
Notes: none

Family: Rubiaceae
Scientific Name: *Galium murale*
Common Name: Tiny bedstraw
Location: **JOMU** - Wanda: NE, between tracks and maintenance, probably elsewhere;
EUON - NE, finger of grassland between two stretches of forest
Habitat Type: Grassland/Ruderal
Growth Form: Herb
Flowering Period: March-May
Status: none
Notes: none

Family: Rubiaceae
Scientific Name: *Galium porrigens var. porrigens*
Common Name: Bedstraw
Location: **JOMU** - Wanda: All quadrants, in shaded areas;
EUON - East side forest area
Habitat Type: Woodland/Forest
Growth Form: Herb
Flowering Period: March-May
Status: none
Notes: none

Family: Rubiaceae
Scientific Name: *Sherardia arvensis*
Common Name: Field madder
Location: **EUON** - NE, finger of grassland between forest habitats

Habitat Type: Grassland
Growth Form: Herb
Flowering Period: March-May
Status: none
Notes: none

Family: Rutaceae
Scientific Name: *Citrus limon*
Common Name: Lemon
Location: **JOMU** - House: One tree near southeast corner of Muir house, Lemon orchard in southwest corner of site
Habitat Type: Garden/Orchard
Growth Form: Small tree
Flowering Period: Year round producer
Status: none
Notes: Planted, not historic

Family: Rutaceae
Scientific Name: *Citrus sinensis*
Common Name: Orange
Location: **JOMU** - House: One tree directly behind Muir house, southeast corner, Orange grove east of Adobe
Habitat Type: Garden/Orchard
Growth Form: Small tree
Flowering Period: Winter/Spring
Status: none
Notes: Planted, not historic

Family: Rutaceae
Scientific Name: *Ptelea crenulata*
Common Name: Hop tree
Location: **JOMU** - Wanda: NW-NE-SE, occasional shrub/small tree on forest and woodland margins
Habitat Type: Woodland/Forest
Growth Form: Shrub/Small tree
Flowering Period: April-May
Status: Ub - 3-5 localities known in East Bay
Notes: More common than believed - occurs on Chaparral/Forest ecotones

Family: Salicaceae
Scientific Name: *Populus fremontii ssp. fremontii*
Common Name: Fremont cottonwood
Location: **JOMU** - Wanda: SE, edge of Strain property;

Habitat Type: Riparian/Ruderal
Growth Form: Tree
Flowering Period: March-May
Status: none
Notes: none

Family: Salicaceae
Scientific Name: *Salix laevigata*
Common Name: Red willow
Location: **JOMU** - Wanda: NW corner of NW quadrant, above tracks; House: Riparian

Grave: Riparian
Habitat Type: Riparian/Ruderal
Growth Form: Tree
Flowering Period: March-June
Status: none
Notes: none

Family: Salicaceae
Scientific Name: *Salix lasiolepis*
Common Name: Arroyo willow
Location: **JOMU** - Wanda: NW-NE, Dry North-facing slope above tracks; House:
Riparian; Grave: Riparian; **EUON** - East side next to office, slide area
Habitat Type: Riparian/Ruderal
Growth Form: Tree
Flowering Period: May-June
Status: none
Notes: none

Family: Saxifragaceae
Scientific Name: *Bergenia crassifolia*
Common Name: Winter blooming bergenia
Location: **JOMU** - House: East bed of Muir house

Habitat Type: Garden
Growth Form: Herb
Flowering Period: Winter
Status: none
Notes: planted

Family: Saxifragaceae
Scientific Name: *Carpenteria californica*
Common Name: Bush anemone
Location: **JOMU** - House: Native plant garden

Habitat Type: Garden
Growth Form: shrub
Flowering Period: Spring
Status: none
Notes: planted; Native to California Sierra Nevadas, but not locally native

Family: Saxifragaceae
Scientific Name: *Deutzia scabra*
Common Name: Deutzia
Location: **JOMU** - House: victorian garden and adobe

Habitat Type: Garden
Growth Form: shrub
Flowering Period: May
Status: none
Notes: planted, not historic

Family: Saxifragaceae
Scientific Name: *Heuchera micrantha*
Common Name: Alum root, Coral bells
Location: **JOMU** - House: Behind Adobe, south side

Habitat Type: Garden
Growth Form: herb
Flowering Period: spring
Status: none
Notes: planted, not historic

Family: Saxifragaceae
Scientific Name: *Hydrangea macrophylla*
Common Name: Big leaf hydrangea
Location: **JOMU** - House: North bed at visitor center

Habitat Type: Garden
Growth Form: Herb
Flowering Period: Spring
Status: none
Notes: Planted, not historic

Family: Saxifragaceae

Scientific Name: *Lithophragma affine*

Common Name: Common woodland star

Location: **JOMU** - Wanda: All quadrants in woodland and sometimes open grassland;

Habitat Type: Woodland/Grassland

Growth Form: Herb

Flowering Period: March-May

Status: none

Notes: none

Family: Saxifragaceae

Scientific Name: *Lithophragma heterophyllum*

Common Name: Hillside woodland star

Location: **JOMU** - Wanda: NW, in shaded woodland;

EUON - East forest, slide area

Habitat Type: Woodland/Forest

Growth Form: Herb

Flowering Period: March-May

Status: none

Notes: none

Family: Saxifragaceae

Scientific Name: *Saxifraga californica*

Common Name: California saxifrage

Location: **JOMU** - Wanda: NW, in shaded woodland

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: March-May

Status: none

Notes: none

Family: Scrophulariaceae

Scientific Name: *Bellardia trixago*

Common Name: Bellardia

Location: **JOMU** - Wanda: All quadrants, on roads

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: April-June

Status: CalEPPC-B

Notes: none

Family: Scrophulariaceae

Scientific Name: *Castilleja affinis ssp. affinis*

Common Name: Indian paintbrush

Location: **JOMU** - Wanda: NW-NE, Chaparral, dry, exposed areas

Habitat Type: Chaparral

Growth Form: sub-shrub

Flowering Period: April-June

Status: none

Notes: none

Family: Scrophulariaceae

Scientific Name: *Castilleja attenuata*

Common Name: Valley tassels

Location: **JOMU** - Wanda: NE-SE, along roads and paths;

Habitat Type: Woodland/Ruderal

Growth Form: herb

Flowering Period: March-May

Status: none

Notes: none

Family: Scrophulariaceae

Scientific Name: *Castilleja exserta ssp. exserta*

Common Name: Purple owl's clover

Location: **JOMU** - Wanda: NE-NE, on woodland hillsides, potentially in south as well

Habitat Type: Woodland

Growth Form: herb

Flowering Period: March-May

Status: none

Notes: none

Family: Scrophulariaceae

Scientific Name: *Castilleja foliolosa*

Common Name: Woolly owl's clover

Location: **JOMU** - Wanda: NW-NE, on exposed slopes in chaparral

Habitat Type: Chaparral

Growth Form: sub-shrub

Flowering Period: Feb-May

Status: none

Notes: none

Family: Scrophulariaceae

Scientific Name: *Castilleja rubicundula ssp. lithospermoides*

Common Name: Cream sacs

Location: **JOMU** - Wanda: NE, two populations in grassy openings in woodland, below wildflower trail between makers 3 and 4

Habitat Type: Woodland

Growth Form: herb

Flowering Period: April-June

Status: Ub - 3-5 localities known in East Bay

Notes: none

Family: Scrophulariaceae

Scientific Name: *Collinsia heterophylla*

Common Name: Purple chinese houses

Location: **JOMU** - Wanda: NW-NE, Along roads and trails, potentially in south too

Habitat Type: Woodland

Growth Form: herb

Flowering Period: April-May

Status: none

Notes: none

Family: Scrophulariaceae

Scientific Name: *Collinsia sparsiflora var. sparsiflora*

Common Name: Blue-eyed mary

Location: **JOMU** - Wanda: NE, woodland hillsides

Habitat Type: Woodland

Growth Form: herb

Flowering Period: April-May

Status: Ub - 3-5 localities known in East Bay

Notes: none

Family: Scrophulariaceae

Scientific Name: *Kickxia elatine*

Common Name: Fluellin

Location: **JOMU** - House: Fields, vineyard, orchards

Habitat Type: Ruderal/Orchard

Growth Form: herb

Flowering Period: May-July

Status: none

Notes: none

Family: Scrophulariaceae
Scientific Name: *Linaria canadensis*
Common Name: Blue toadflax
Location: **JOMU** - Wanda: NE, one patch in chaparral

Habitat Type: Chaparral
Growth Form: herb
Flowering Period: April-May
Status: 3-5 localities known in East Bay
Notes: none

Family: Scrophulariaceae
Scientific Name: *Mimulus aurantiacus*
Common Name: Sticky monkeyflower
Location: **JOMU** - Wanda: NW, NE, in chaparral;
EUON - East side slide area
Habitat Type: Chaparral/Forest
Growth Form: Shrub
Flowering Period: April-July
Status: none
Notes: none

Family: Scrophulariaceae
Scientific Name: *Scrophularia californica ssp. californica*
Common Name: Figwort
Location: **JOMU** - Wanda: SW, along creek, probably elsewhere as well; Grave:
Riparian; **EUON** - East side slide area
Habitat Type: Riparian/Forest
Growth Form: herb
Flowering Period: March-April
Status: none
Notes: none

Family: Scrophulariaceae
Scientific Name: *Triphysaria pusilla*
Common Name: Dwarf owl's clover
Location: **JOMU** - Wanda: All quadrants, along roads

Habitat Type: Ruderal
Growth Form: herb
Flowering Period: March-May
Status: none
Notes: none

Family: Scrophulariaceae

Scientific Name: *Veronica persica*

Common Name: Persian speedwell

Location: **JOMU** - Wanda: SW, on road; Grave: Orchard;
EUON - Ruderal, disked areas

Habitat Type: Ruderal

Growth Form: herb

Flowering Period: March-May

Status: none

Notes: none

Family: Simaroubiaceae

Scientific Name: *Ailanthus altissima*

Common Name: Tree of heaven

Location: **JOMU** - Wanda: NE-SE, many still persisting along hillsides above road and
below train tracks

Habitat Type: Ruderal/Woodland

Growth Form: Tree

Flowering Period: May-July

Status: CalEPPC-A2

Notes: none

Family: Solanaceae

Scientific Name: *Nicotiana glauca*

Common Name: Tree tobacco

Location: **JOMU** - House: To west of easy access path above apple orchard

Habitat Type: Garden

Growth Form: Shrub

Flowering Period: Spring

Status: none

Notes: Planted, not historic

Family: Solanaceae

Scientific Name: ***Solanum americanum***

Common Name: Common nightshade

Location: **JOMU** - NW, forest just above train tracks; Grave: Riparian
EUON - East slide area

Habitat Type: Forest

Growth Form: Shrub-Vine

Flowering Period: June-August

Status: NOX-Non Rated

Notes: none

Family: Solanaceae
Scientific Name: ***Solanum umbelliferum***
Common Name: Blue-witch nightshade
Location: **JOMU** - Wanda: NE, in chaparral, and SW, riparian;
EUON - East slide area
Habitat Type: Chaparral/Forest/Riparian
Growth Form: Shrub-Vine
Flowering Period: March-June
Status: none
Notes: none

Family: Sterculiaceae
Scientific Name: ***Fremontodendron californica***
Common Name: Flannel bush
Location: **JOMU** - House: Native plant garden west of Franklin Creek

Habitat Type: Garden
Growth Form: Shrub
Flowering Period: spring
Status: none
Notes: Planted, not historic

Family: Tamaraceae
Scientific Name: *Tamarix gallica*
Common Name: Tamarisk
Location: **JOMU** - House: Along main road east of Giant Sequoia

Habitat Type: Garden
Growth Form: Tree
Flowering Period: Summer
Status: none
Notes: Planted, Historic

Family: Taxodiaceae
Scientific Name: ***Sequoia sempervirens***
Common Name: Coast redwood
Location: **JOMU** - Wanda: NE, in main parking area; House: Grove located on east side of Franklin creek, near south border of park; **EUON** - above pool

Habitat Type: Garden/Ruderal
Growth Form: Tree
Flowering Period: N/A
Status: none
Notes: Planted, not occurring here naturally.

Family: Taxodiaceae

Scientific Name: *Sequoiadendron giganteum*

Common Name: Giant sequoia

Location: **JOMU** - House: Across from carriage house; Grave: relict ornamental tree

Habitat Type: Orchard

Growth Form: Tree

Flowering Period: N/A

Status: none

Notes: Planted, Historic. Also planted at EUON.

Family: Thymelaeaceae

Scientific Name: *Daphne odora*

Common Name: Winter daphne

Location: **JOMU** - House: Adobe garden

Habitat Type: Garden

Growth Form: shrub

Flowering Period: winter

Status: none

Notes: Planted

Family: Typhaceae

Scientific Name: *Typha angustifolia*

Common Name: Narrow-leafed cattail

Location: **JOMU** - Wanda: NE, along tracks, below hill cut

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: May-July

Status: none

Notes: none

Family: Typhaceae

Scientific Name: *Typha latifolia*

Common Name: Broad-leafed cattail

Location: **EUON** - East slide area

Habitat Type: Forest

Growth Form: Herb

Flowering Period: May-July

Status: none

Notes: none

Family: Ulmaceae
Scientific Name: *Ulmus pumila*
Common Name: Siberian elm
Location: **JOMU** - House: At well by parking lot, and by oval

Habitat Type: Garden
Growth Form: Tree
Flowering Period: n/a
Status: none
Notes: Planted, not historic

Family: Urticaceae
Scientific Name: *Urtica dioica ssp. holosericea*
Common Name: Stinging nettle, Hoary nettle
Location: **JOMU** - House: Riparian; Grave: Riparian;
 EUON - East slide area
Habitat Type: Forest/Riparian
Growth Form: Herb
Flowering Period: June-Aug
Status: none
Notes: none

Family: Urticaceae
Scientific Name: *Urtica urens*
Common Name: Dwarf nettle
Location: **JOMU** - Wanda: NW-NE, shaded forest, potentially in the south as well;
 EUON - Ruderal, NW
Habitat Type: Forest/Ruderal
Growth Form: Herb
Flowering Period: June-Aug
Status: none
Notes: none

Family: Valerianaceae
Scientific Name: *Centranthus ruber*
Common Name: Red valerian
Location: **JOMU** - House: Adobe Garden

Habitat Type: Garden
Growth Form: Herb
Flowering Period: Spring-Summer
Status: CalEPPC-?
Notes: none

Family: Valerianaceae

Scientific Name: ***Plectritis brachystemon***

Common Name: Short-spurred plectritis

Location: **JOMU** - Wanda: NE-NW, along trails and deer tracks, usually in moist areas
(very commonly found with *Collinsia*)

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: April-May

Status: none

Notes: none

Family: Valerianaceae

Scientific Name: ***Plectritis ciliosa ssp. ciliosa***

Common Name: Long-spurred plectritis

Location: **JOMU** - Wanda: NW, along steep hillside near fence line, open woodland

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: March-April

Status: none

Notes: none

Family: Verbenaceae

Scientific Name: ***Phyla nodiflora var. nodiflora***

Common Name: Common lippia

Location: **JOMU** - House: Lawn weed near house;
EUON - Lawn weed near Tao House

Habitat Type: Ruderal

Growth Form: Herb

Flowering Period: May-July

Status: CalEPPC-N

Notes: none

Family: Viscaceae

Scientific Name: ***Phoradendron macrophyllum***

Common Name: Big-leaf mistletoe

Location: **JOMU** - Wanda: NE, in English walnut trees below train tracks; House:
Orchard trees; **EUON** - West walnut orchard

Habitat Type: Orchard/Woodland

Growth Form: Parasite

Flowering Period: N/A

Status: Ub - 3-5 localities known wild in the East Bay

Notes: Typically grows in cultivated fruit trees, uncommon elsewhere

Family: Viscaceae
Scientific Name: *Phoradendron villosum*
Common Name: Oak mistletoe
Location: **JOMU** - Wanda: All quadrants, common oak parasite;
 EUON - East forest
Habitat Type: Woodland/Forest
Growth Form: Parasite
Flowering Period: N/A
Status: none
Notes: Typically grows in native *Quercus* spp.

Family: Vitaceae
Scientific Name: *Vitis vinifera*
Common Name: Grape
Location: **JOMU** - Wanda: In SE corner of property near stables, on fence; House: in
 vineyard between plum orchard and Franklin creek;
 EUON - West walnut orchard, growing in the crook of a Walnut tree
Habitat Type: Orchard/Ruderal
Growth Form: Vine
Flowering Period: N/A
Status: none
Notes: Planted, not historic, but representation

Family: Zygophyllaceae
Scientific Name: *Tribulus terrestris*
Common Name: Puncturevine
Location: **JOMU** - Wanda: NE, main parking area; House: Orchards; Grave; Orchard;
 EUON - Orchards, disked areas
Habitat Type: Orchard/Ruderal
Growth Form: Herb
Flowering Period: June-Aug
Status: NOX-C
Notes: none

References

- The American Horticultural Society, 1990. Encyclopedia of Garden Plants, Macmillan Publishing Company, New York
- Arizona State University Herbarium Database. <http://ces.asu.edu>
- California Exotic Pest Plant Council, 1999. The CalEPPC List: Exotic Pest Plants of Greatest Ecological Concern in California. <http://www.caleppc.org>
- CalFlora Database. <http://www.calflora.org>
- Ertter, Barbara, 1997. Annotated Checklist of the East Bay Flora. California Native Plant Society, East Bay Chapter.
- Faber, Phyllis M, 1996. Common Wetland Plants of Coastal California. Pickleweed Press.
- Hickman, James, ed, 1993. The Jepson Manual: Higher Plants of California. University of California Press, Berkeley, CA.
- Hunter, John C. et al, 1993. The flora, vegetation, and human use of Mt. Wanda, John Muir National Historic Site, Martinez, California. Cooperative Park Studies Unit, National Park Service, Davis, California. Unpublished.
- Kozloff, Eugene and Beidleman, Linda, 1994. Plants of the San Francisco Bay Region: Mendocino to Monterey. Sagen Press.
- Lake, Dianne, 2001. Unusual and Significant Plants of Alameda and Contra Costa Counties. California Native Plant Society, East Bay Chapter.
- Lewis and Lewis, 1955. The genus *Clarkia*. University of California Publications in Botany 20: 241-392.
- San Francisco Bay Area Regional Database (BARD). <http://bard.wr.usgs.gov/index.html>
- Sunset Books, 1989. Western Garden Book, Lane Publishing Company.
- U.S. Fish & Wildlife Service, Sacramento Fish & Wildlife Office, Plant Species of Concern, Updated July 23, 2002
http://sacramento.fws.gov/es/spp_lists/plant_sp_concern.cfm